

Catalogue
of
Microscopical Slides
of the
Pailey Collection.

3 To go with the "Microscopical Collection"

some of the choicest treasures of my collection being
here indicated

Record of position of objects on
slides mostly from Atlantic Soundings.
by Prof. Bailey

Slide A Catalogue No. 567
 147 Fathoms Off Key Biscayne

- | | | | |
|------|--|---|--|
| No 1 | $\sqrt{\frac{62}{72}}$ | <i>Podocyrtes bulbosus</i> B. | |
| 2 | $\frac{64\frac{1}{4}}{73\frac{1}{2}}$ | <i>Campylodiscus vagans</i> B. | |
| 3 | $\sqrt{\frac{52}{74\frac{1}{2}}}$ | <i>Halicalyptea polygonalis</i> B. | |
| 4 | $\frac{44}{73\frac{3}{8}}$ | <i>Diploneis</i> | |
| 5 | $\frac{64}{72\frac{3}{4}}$ | <i>Campylodiscus vagans</i> B. | |
| 6 | $\frac{59\frac{1}{8}}{74\frac{1}{8}}$ | <i>Pinnularia musica</i> B. | |
| 7 | $\frac{64\frac{1}{2}}{70}$ | <i>Amphipentias</i> | |
| 8 | $\sqrt{\frac{39\frac{1}{2}}{74\frac{1}{2}}}$ | <i>Leithopera setigera</i> B. | |
| 9 | $\frac{49}{72\frac{1}{8}}$ | <i>Pinnularia?</i> | |
| 10 | $\frac{62\frac{1}{8}}{69}$ | <i>Halicalyptea Petasus</i> B. | slightly broken |
| 11 | $\frac{47}{73\frac{1}{2}}$ | <i>Auliscus orbosus</i> B. | |
| 12 | $\frac{61\frac{3}{4}}{64\frac{1}{4}}$ | <i>Campylodiscus vagans</i> | |
| 13 | $\frac{59}{70\frac{2}{3}}$ | <i>Eucyrtidium</i> | |
| 14 | $\frac{52}{82\frac{1}{4}}$ | <i>Pinnularia bipora</i> B. | |
| 15 | $\frac{61\frac{1}{8}}{29}$ | <i>Cornulella clathrata</i> B. <i>profundata</i> Ehr. | |
| 16 | $\frac{48\frac{1}{3}}{89\frac{1}{4}}$ | <i>Eucyrtidium</i> | |
| 17 | $\sqrt{\frac{40}{65\frac{2}{3}}}$ | <i>Halicalyptea obtusa</i> B. | See F ^o $\frac{46\frac{1}{8}}{81}$ for top view of same |
| 18 | $\frac{46\frac{7}{8}}{73+}$ | <i>Chaetoceros falcatum</i> B. | seen obliquely |

Slide B. No. 518


147 Fathoms Off Key Biscayne

No 1 $\sqrt{57\frac{1}{2}}$ *Porpeia quadriceps* B.

2 $\frac{49\frac{1}{2}}{73\frac{1}{2}}$ *Euodia gibba* B.

3 $\frac{38}{84\frac{1}{2}}$ *Halicalyptis? dentata* B.

4 $\frac{58\frac{1}{2}}{71}$

curious frame work  See S'

5 $\frac{60\frac{1}{2}}{77\frac{1}{2}}$ *Halicyra rosea* B.

6 $\frac{58\frac{1}{2}}{89}$ " *spinosa* B.

imaging

C

147. Fathoms Off Key Biscayne

- | | | | | |
|----|----|---------------------------------------|--|--|
| No | 1 | $\frac{53\frac{1}{2}}{78\frac{3}{8}}$ | <i>Calicalyptia Schüss B.</i> | top view .. margin broken |
| | 2 | $\frac{54}{78\frac{3}{4}}$ | <i>Ceratospiris parva B.</i> | |
| | 3 | $\frac{41\frac{7}{8}}{82}$ | <i>Campylodiscus vagans B.</i> | |
| | 4 | $\frac{57}{69}$ | <i>Bacteriastrom</i> | |
| | 5 | $\frac{39\frac{1}{4}}{68\frac{3}{4}}$ | <i>Sivirella lata?</i> Smith variety and cuspidata | |
| | 6 | $\frac{45}{73\frac{1}{4}}$ | <i>Amphipentās flexuosus B.</i> | quadrangular variety |
| | 7 | $\frac{49}{77\frac{1}{2}}$ | <i>Amphora</i> | in state of fission |
| | 8 | $\frac{46\frac{1}{2}}{75}$ | <i>Denticella lineata B.</i> | |
| | 9 | $\frac{55}{65\frac{1}{4}}$ | | |
| | 10 | $\frac{40\frac{3}{4}}{67}$ | <i>Chaetoceros falcatum B.</i> | |
| | 11 | $\frac{43\frac{1}{2}}{66\frac{3}{4}}$ | <i>Leptothorax</i> or <i>spinosum B.</i> | |
| | | | <i>Amphitetras cuspidata B.</i> | |
| | 12 | $\frac{45}{67\frac{1}{4}}$ | <i>Diploneis</i> | oblique view showing ridge in the middle |
| | 13 | $\frac{35\frac{1}{4}}{32\frac{3}{4}}$ | <i>Eucyrtidium prolongatum B.</i> | |
| | 14 | $\frac{40\frac{1}{4}}{76\frac{1}{4}}$ | <i>Valoniastrom amplum B.</i> | good |

Slide D No. 570

Off. Key Biscayne 147. Fathoms

- No 1. $\frac{36\frac{1}{2}}{65\frac{1}{4}}$ *Amphipentax flexuosus* B.
2. $\frac{51\frac{1}{2}}{28}$ *Hyalodiscus radiatus* B. = *Craspedodiscus? radiatus* Ehr
3. $\frac{47\frac{1}{2}}{70\frac{1}{2}}$ *Sivirella fastuosa?* See Mus. Journ. Vol 3 pl IV
4. $\frac{55\frac{1}{4}}{73\frac{1}{8}}$ *Amphipentax? ornatum* 5 angled variety of *Amphipentax ornatum* of Shallock
See Mus. Journ. Vol 2 p. 13
5. $\frac{41}{71\frac{1}{4}}$ *Cornulatta clathrata* B. *propunda*.

Slide E. small slide No. 571

Off Key Biscayne - 147 Fathoms

- 1 $\frac{49\frac{1}{2}}{74\frac{1}{4}}$ *Haliarthrum amplum* B.
- 2 $\frac{45\frac{1}{4}}{79\frac{1}{8}}$ *Grammatophora serpentina*? Ehr.
- 3 $\frac{52\frac{1}{2}}{75\frac{1}{2}^+}$ *Placolithis radiatus* Ehr. See *Mikrogeologie* Taf. 34. X fig 5 Off head at bottom
- 4 $\frac{55\frac{3}{4}}{30\frac{3}{4}}$ *Pinnularia fructosa*? Ehr.

Slide F No. 572

Off Key Biscayne 147 Fathoms

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|------|---------------------------------------|---|---|
| No 1 | $\frac{52\frac{3}{4}}{67}$ | <i>Coccinodiscus</i> | |
| 2 | $\frac{62\frac{1}{4}}{37\frac{3}{4}}$ | <i>Navicula! concinna</i> B. | |
| 3 | $\frac{63}{49\frac{1}{4}}$ | " " " | |
| 4 | $\frac{60\frac{1}{4}}{26}$ | <i>Triceratium</i> | |
| 5 | $\frac{55\frac{1}{2}}{60\frac{1}{2}}$ | <i>Nobelia decussata</i> B. | |
| 6 | $\frac{51\frac{1}{4}}{21}$ | <i>Triceratium Parvum</i> B. | oblique view, showing side |
| 7 | $\frac{49\frac{3}{4}}{26\frac{1}{2}}$ | <i>Asterolampra</i> | 7 rays, very faint, near point of a large spicule and E. of <i>Suberatum Ferris</i> . |
| 8 | $\frac{48\frac{1}{4}}{78\frac{1}{8}}$ | <i>Porpeia quadriceps</i> B. | B-5 |
| 9 | $\frac{48}{72}$ | <i>Pinnularia musica</i> B. | in angle between two spicules |
| 10 | $\frac{40\frac{3}{4}}{75\frac{1}{4}}$ | <i>Porpeia quadriceps</i> B. | 2 pustules |
| 11 | $\frac{39\frac{1}{2}}{60\frac{3}{4}}$ | <i>Podocorythia Sæglis</i> Ehr. | |
| 12 | $\frac{38\frac{3}{4}}{74\frac{3}{4}}$ | <i>Halimomma circumflexa</i> B. | |
| 13 | $\frac{37\frac{3}{4}}{19\frac{3}{8}}$ | <i>Navicula Scutata</i> B. | |
| 14. | $\frac{46\frac{3}{4}}{30}$ | <i>Strombolium</i> <i>Suberatum</i> <i>Spongyodiscus Suberai</i> B. | |

Slide G. No. 573

Off Key Biscayne 147 Fathoms

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|------|---|---|
| No 1 | $\frac{57}{69}$, $\frac{64\frac{1}{4}}{71\frac{1}{4}}$, $\frac{61\frac{1}{8}}{65\frac{3}{4}}$ | <i>Podocypis</i> <i>Aegles</i> Ehr. |
| 2 | $\frac{58\frac{1}{2}}{72\frac{1}{2}}$ | <i>Cornutella</i> <i>Fiscella</i> B. top view |
| 3 | $\frac{60}{75\frac{2}{3}}$ | <i>Eucyrtidium</i> <i>compressum</i> ? B. var. <i>multicostatum</i> |
| 4 | $\frac{64\frac{1}{4}}{71\frac{1}{4}}$ | <i>Podocypis</i> <i>Aegles</i> Ehr. showing basal teeth well |
| 5 | $\frac{68\frac{1}{4}}{66\frac{1}{8}}$ | <i>Amphipentax</i> <i>ornatus</i> ? |
| 6 | $\frac{49}{74\frac{1}{3}}$ | <i>Haliarthrum</i> <i>camplaxum</i> B. |
| 7 | $\sqrt{\frac{67\frac{7}{8}}{79\frac{3}{4}}}$ | <i>Cornutella</i> <i>clavata</i> - β - <i>profunda</i> Ehr. |
| 8 | $\sqrt{\frac{44\frac{3}{4}}{69\frac{2}{3}}}$ | <i>Eucyrtidium</i> <i>compressum</i> B. |

Slide H.

No. 574

147 Fathoms

off Key Biscayne

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|------|---------------------------------------|--|
| No 1 | $\frac{61\frac{3}{4}}{87\frac{1}{4}}$ | <i>Pinnularia?</i> <i>decora</i> B |
| 2 | $\frac{60\frac{1}{2}}{67\frac{7}{8}}$ | <i>Nitelia</i> <i>deussata</i> B. |
| 3 | $\frac{60}{86}$ | <i>Pinnularia</i> <i>musica</i> B. |
| 4 | $\frac{44\frac{1}{8}}{82\frac{1}{4}}$ | <i>Diploneis</i> |
| 5 | $\frac{43\frac{1}{4}}{76}$ | <i>Hyalodiscus</i> <i>multi</i> <i>linearis</i> B
<small>(made with lines)</small> |
| 6 | $\frac{40\frac{1}{2}}{71\frac{1}{4}}$ | <i>Pinnularia</i> <i>praetexta?</i> Ehr |
| 7 | $\frac{34}{70\frac{3}{4}}$ | |
| 8 | $\frac{36\frac{3}{4}}{80}$ | |

Slide I. No. 575.

Off Key Biscayne, 147 Fathoms

- | | | | |
|------|---------------------------------------|-----------------------------------|---------------------------------------|
| No 1 | $\frac{63\frac{3}{4}}{82\frac{1}{2}}$ | <i>Halicalypta Petasus</i> B. | top view |
| 2 | $\frac{63\frac{1}{4}}{68\frac{1}{2}}$ | <i>Podocypis decurrens</i> B. | |
| 3 | $\frac{44\frac{1}{2}}{82}$ | <i>Climacospaenia elongata</i> B. | |
| 4 | $\frac{50\frac{3}{4}}{74}$ | <i>Navicula? carinata</i> B. | |
| 5 | | (Spine seen) | |
| 6 | $\frac{40\frac{1}{8}}{80\frac{2}{3}}$ | <i>Amphora</i> | |
| 7 | $\frac{62\frac{1}{4}}{21}$ | <i>Halimma valida</i> B. | broken so as to show nucleus. |
| 8 | $\frac{62\frac{1}{4}}{30\frac{2}{3}}$ | <i>Halimma inaequalis</i> B. | with large ^{unequal} meshes. |

Slide J No. 576
 Off Key Biscayne 147 Fathoms

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|------|---------------------------------------|---|------------------|
| No 1 | $\frac{62}{27}$ | <i>Pinnularia decora</i> B. | |
| 2 | $\frac{62}{26}$ | <i>Eucyrtidium simplex</i> B. | |
| 3 | $\frac{58}{29}$ | <i>Pinnularia</i> | |
| 4 | $\frac{54\frac{1}{8}}{7\frac{1}{2}}$ | <i>Coscinodiscus Parma</i> B. | |
| 5 | $\frac{56}{82\frac{1}{4}}$ | <i>Amphitetras cuspidata</i> B. | |
| 6 | $\frac{5}{23\frac{3}{8}}$ | <i>Pinnularia praetexta</i> ? Ehr. | |
| 7 | $\frac{54\frac{1}{8}}{83\frac{1}{2}}$ | <i>Placolithis radiatus</i> Ehr. | |
| 8 | $\frac{58\frac{1}{2}}{27}$ | Halibotrys <i>Halibotrys</i> <i>loculosus</i> B. | to bottom |
| 9 | $\frac{51^+}{84^-}$ | <i>Pinnularia musica</i> B. | top view |
| 10 | $\frac{50^+}{82^-}$ | <i>Podocypis Sægles</i> Ehr. | |
| 11 | $\frac{47\frac{3}{4}}{77\frac{3}{4}}$ | " " " | |
| 12 | $\frac{45\frac{1}{2}}{66^-}$ | <i>Coscinodiscus Parma</i> B. | fine one |
| 13 | $\frac{45\frac{1}{4}}{81\frac{1}{4}}$ | <i>Triceratium setigerum</i> B. | top view, broken |
| 14 | $\frac{43\frac{1}{2}}{62\frac{1}{8}}$ | <i>Pinnularia musica</i> B. | |
| 15 | $\frac{42\frac{1}{4}}{80\frac{1}{2}}$ | <i>Triceratium setigerum</i> B. | top view |
| 16 | $\frac{46\frac{3}{8}}{75}$ | <i>Haliantzum complexum</i> B. | |
| 17 | $\frac{45^-}{67\frac{1}{8}}$ | <i>Haliantzum complexum</i> B. | |

Slide R No. 577

Off Key Biscayne 147 Fathoms.

No 1	$\frac{59}{2\frac{3}{4}}$	<i>Campylodiscus vagans</i> B.	
2	$\frac{49\frac{7}{8}}{22\frac{1}{2}}$	<i>Triceratium setigerum</i> B.	top view
3	$\frac{47\frac{1}{4}}{29\frac{1}{4}}$	" "	side view
4	$\frac{40\frac{3}{4}}{66}$	<i>Triceratium Parona</i> B.	with convex sides
5	$\frac{48\frac{3}{4}}{74\frac{7}{8}}$	<i>Campylodiscus vagans</i> ? B.	two specimens small ones
6	$\frac{65}{66\frac{1}{4}}$	<i>Podocorytho Perrignani</i> B.	
7	$\frac{58\frac{1}{2}}{61}$	<i>Campylodiscus vagans</i> B.	
8	$\frac{65}{68}$	<i>Pterocodium stolatum</i> B.	
9	$\frac{59}{65}$	<i>Histiastrium quadriceps</i> B.	
10	$\frac{42\frac{1}{2}}{63}$	<i>Spongodiscus biannulatus</i> B.	
11	$\frac{34\frac{3}{4}}{73}$	<i>Podocorytho bulbosus</i> B.	
12	$\frac{42\frac{3}{4}}{24\frac{1}{2}}$	<i>Podocorytho Bayles</i> B.	
13	$\frac{50}{24}$	" "	
14	$\frac{42\frac{7}{8}}{26\frac{7}{8}}$	<i>Pinnularia musica</i> B.	large one
15	$\frac{47}{29\frac{2}{3}}$	<i>Spongodiscus radiatus</i> B.	
16	$\frac{43\frac{1}{4}}{22\frac{1}{4}}$	<i>Histiastrium triceps</i> B.	
17	$\frac{43}{23\frac{1}{4}}$	<i>Bacteriastrium</i>	
18	$\frac{33}{23}$	<i>Histiastrium spinifer</i> B.	3 spec
19	$\frac{32\frac{1}{4}}{7\frac{2}{3}}$	<i>Stilodictya polygonalis</i> ? B.	with long spines, good

Slide L. No. 578.

Off Pt. Biscayne 147 Fathoms.

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|------|---------------------------------------|--|--------------------------------|
| No 1 | $\frac{68\frac{1}{2}}{70}$ | <i>Porpeia quadriceps</i> B. | |
| 2 | $\frac{67}{86\frac{1}{4}}$ | <i>Pinnularia muscia</i> B. | small one |
| 3 | $\frac{64\frac{1}{4}}{68\frac{1}{4}}$ | <i>Porpeia quadriceps</i> B. | |
| 4 | " | <i>Pinnularia</i> <i>Navicula! Cooperi</i> B. | = <i>Pinnularia Cooperi</i> B. |
| 5 | $\frac{64\frac{1}{8}}{73\frac{1}{2}}$ | <i>Pinnularia praetexta?</i> Ehr. | |
| 6 | $\frac{63\frac{1}{4}}{28\frac{1}{2}}$ | <i>Coscinodiscus Parma</i> B. | |
| 7 | $\frac{51\frac{3}{4}}{77\frac{1}{2}}$ | <i>Comulella clathrata</i> B. | profunda Ehr. |
| 8 | $\frac{39}{29\frac{1}{2}}$ | <i>Amphiporus flexuosus</i> B. | |
| 9 | $\frac{60\frac{1}{2}}{27\frac{7}{8}}$ | <i>Campylodiscus vagans</i> B. | |
| 10 | $\frac{58\frac{1}{8}}{75}$ | <i>Triceratium Favus</i> Ehr. | very large one |
| 11 | $\frac{65\frac{3}{4}}{84\frac{1}{8}}$ | $\frac{54\frac{3}{8}}{22^+}$ <i>Comulella clathrata</i> B. | profunda Ehr. |
| 12 | $\frac{46\frac{7}{8}}{84\frac{1}{8}}$ | <i>Podocorytus Aegles</i> Ehr. | |
| 13 | $\frac{58\frac{1}{4}}{86\frac{1}{4}}$ | <i>Histastrum biceps</i> | fine one |
| 14 | $\frac{43}{26\frac{1}{2}^+}$ | <i>Podocorytus decurrens</i> B. | |
| 15 | $\frac{43}{68}$ | <i>Coscinodiscus Parma</i> B. | broken, showing interior |
| 16 | $\frac{42\frac{1}{2}}{84\frac{1}{8}}$ | <i>Podocorytus Aegles</i> Ehr. | |
| 17 | $\frac{41\frac{1}{4}}{66\frac{1}{8}}$ | <i>Navicula diaphragma</i> B. | |
| 18 | $\frac{41\frac{3}{4}}{73\frac{1}{4}}$ | <i>Triceratium: Parma</i> B. | |
| 19 | $\frac{37\frac{1}{4}}{80\frac{3}{4}}$ | <i>Dictyophimus? fragilis</i> B. | |
| 20 | $\frac{37}{85}$ | <i>Eucyathidium ampliatum</i> B. | See U' |
| 21 | $\frac{36}{69}$ | <i>Pinnularia decora</i> B. | |
| 22 | $\frac{3}{69}$ | <i>Eurotia gilba</i> B. | } in same field of view |
| 23 | $\frac{36}{69}$ | <i>Hyalodiscus</i> | |
| 24 | $\frac{29\frac{1}{2}}{80\frac{2}{3}}$ | | |
| 25 | $\frac{28\frac{1}{2}}{75\frac{1}{3}}$ | <i>Comulella clathrata</i> B. | profunda Ehr. |
| 26 | $\frac{58\frac{1}{4}}{67\frac{1}{4}}$ | <i>Hyalothraum complexum</i> B. | suber |

Slide M. No. 579

Off Key Biscayne 147 Fathoms

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|----|---|--|----------------------------|
| 1 | $\frac{38\frac{3}{4}}{28\frac{7}{8}}$ | <i>Triceratium?</i> Parma B. | |
| 2 | $\frac{47\frac{1}{4}}{70}$ | <i>Campyrodiscus vagans</i> B. | |
| 3 | $\frac{66}{28}$ | " " | |
| 4 | $\frac{53\frac{1}{4}}{26\frac{1}{4}}$ | <i>Comulella clathrata</i> B. profunda | |
| 5 | $\frac{52\frac{1}{2}}{25\frac{3}{4}}$ | <i>Pinnularia musica</i> B. top near | |
| 6 | $\frac{49}{65\frac{1}{4}}$ | <i>Eupodiscus radiatus</i> B. | |
| 7 | $\frac{47\frac{1}{2}}{46\frac{3}{4}}$ | <i>Pinnularia punctata?</i> | |
| 8 | $\frac{48\frac{1}{2}}{26}$ | " <i>praetexta</i> Ehr | |
| 9 | $\frac{42\frac{1}{4}}{28\frac{2}{3}}$ | <i>Porpeia quadriceps</i> B. | |
| 10 | $\frac{41\frac{1}{2}}{27\frac{3}{4}}$ | <i>Comulella Fiscella</i> B. | |
| 11 | $\frac{35\frac{1}{2}}{27}$ | <i>Pinnularia Navicula</i> Cooperi B. | |
| 12 | $\frac{49^+}{31\frac{1}{4}}$ | <i>Podocorytus bulbosus</i> B. | with variety but non usual |
| 13 | $\frac{55\frac{3}{4}}{65\frac{1}{4}}$ | <i>Amphitetra</i> Cuv | |
| 14 | $\frac{40\frac{3}{4}}{24\frac{3}{4}^+}$ | <i>Halimma opposita</i> B. | |
| 15 | $\frac{48\frac{1}{4}}{24}$ | Spicule | |
| 16 | $\frac{65}{65\frac{1}{8}}$ | <i>Leithomella?</i> calva | |
| 17 | $\frac{40}{24\frac{1}{4}}$ | " " B | |
| 18 | $\frac{43}{63\frac{1}{8}}$ | <i>Amphora</i> | seen frequently |

Slide No. No. 580

Depth not marked, off Key Biscayne.

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|------|-----------------|--|----------------------------------|
| No 1 | $\frac{57}{74}$ | <i>Diploneis fulchra</i> B. | good one |
| 2 | $\frac{42}{80}$ | <i>Halimma</i> <i>opposita</i> B. | |
| 3 | $\frac{68}{31}$ | <i>Stylo-dictya polygonalis</i> B. | |
| 4 | $\frac{66}{31}$ | <i>Haliarthrum amplum</i> B. | broken so as to show the nucleus |
| 5 | $\frac{64}{64}$ | <i>Orthorhopalum spongiosum</i> B. | |
| 6 | $\frac{63}{30}$ | ^{<i>Podocryptis</i>}
<i>Halimma</i> <i>campanulata</i> B. | showing base |
| 7 | $\frac{56}{82}$ | <i>Campylo-discus</i> | fine oblique view |
| 8 | $\frac{56}{61}$ | ^a $\frac{51}{29}$ <i>Podocryptis</i> <i>Aegles</i> , Ehr. | |
| 9 | $\frac{50}{66}$ | <i>Spongo-discus Saturni</i> B. | |
| 10 | $\frac{50}{62}$ | <i>Carpocerasium Fragum</i> B. | |
| 11 | $\frac{42}{72}$ | | |
| 12 | $\frac{41}{71}$ | <i>Placolites radiatus</i> Ehr. | |
| 13 | $\frac{40}{60}$ | <i>Sichonocanium trifenestratum</i> B. | W. of large spines |
| 14 | $\frac{38}{80}$ | <i>Eucypridium impendens</i> B. | |

Slide C. No. 581

Off Key Biscayne depth not marked

- | | | | |
|------|---------------------------------------|-------------------------|--------------------------------|
| No 1 | $\frac{46}{29\frac{1}{2}}$ | Asteromphalus | touching a Deploneis and W. of |
| 2 | $\frac{54\frac{3}{4}}{28\frac{3}{4}}$ | | spindle shaped body. |
| 3 | $\frac{54\frac{1}{4}}{64\frac{1}{8}}$ | | curious spicule |
| 4 | $\frac{49\frac{1}{2}}{66}$ | Ceratospyris | |
| 5 | $\frac{53\frac{1}{2}}{64}$ | Dichosphimus? Doridis G | |
| 6 | $\frac{53\frac{1}{2}}{67\frac{3}{4}}$ | Haliarthrum | |
| 7 | $\frac{43}{70\frac{1}{2}}$ | Asteromphalus | near a small |

No. 582

Slide P.

Off Key Bismarck depth not marked

1	$\frac{133\frac{1}{2}}{70\frac{3}{4}}$	<i>Dictyocephala</i> ^{araneosa} <i>araneosa</i> B.
2	$\frac{40\frac{1}{4}}{76}$	<i>Diploneis pulchra</i> B.
3	$\frac{33\frac{1}{4}}{64\frac{1}{2}}$	
4	$\frac{62\frac{1}{4}}{30\frac{1}{2}}$	<i>Halibutrys spinosus</i> B.
5	$\frac{40\frac{1}{4}}{85\frac{2}{3}}$	<i>Haliarthrum complexum</i> B.
6	$\frac{58}{25\frac{1}{4}}$	<i>Dictyopyxis depressa</i> B.

No. 583

Slide Q. off Key Biscayne, Depth not marked

- | | | | |
|-----|-------------------------|--------------------------------------|--------------|
| 101 | $\sqrt{55}$
72 1/4 | <i>Spirella lata</i> ? Smith | large one |
| 2 | $\frac{56}{47 1/4}$ | <i>Pinnularia musica</i> B | |
| 3 | $\frac{46}{27}$ | " " " | two fusibles |
| 4 | $\frac{40 3/4}{44 1/2}$ | <i>Podocypitis Segles</i> Em | curved. one |
| 5 | $\frac{58 1/4}{84}$ | <i>Lithothamnium concentricum</i> B. | |

Slide R. No. 584

10 Off. Key Biscayne 147 Fathoms.

1 $\frac{64\frac{3}{4}}{76\frac{1}{2}}$ *Dicranella araneosa* B.

2 $\frac{56}{28\frac{1}{2}}$ *Triceratium?* Parma B.

3 $\frac{45\frac{1}{2}}{28\frac{1}{2}}$ " "

4 $\frac{41}{44}$ *Histastrum* ~~sp.~~ ^{spinifer} B. with traces of spines

5 $\frac{33\frac{1}{2}}{36\frac{1}{2}}$ *Triceratium* Parma B.

6 $\frac{31\frac{1}{2}}{35\frac{1}{2}}$ *Eucyrtidium Tritonis* B. good one Lee W.

7 $\frac{47}{7\frac{1}{2}}$ *Pterocodon?* *Tholus* B.
(dome, cupola)

8 $\sqrt{\frac{30\frac{1}{2}}{73}}$ ³⁹² *Lithomelissa?* *irregularis*

No. 585
Slide S. 1417 fathoms, off Key Biscayne

- | | | | |
|-----|------------------------------------|--|-----------------------------|
| 101 | $61\frac{3}{4}$
$63\frac{1}{2}$ | <i>Coccinodiscus</i> ? <i>Parma</i> B. | |
| 2 | $62\frac{1}{4}$
$57\frac{1}{4}$ | <i>Triceratium</i> ? <i>Parma</i> B. | |
| 3 | $57\frac{1}{4}$
$57-$ | <i>Podocorytis decurrens</i> B. | with veil very far extended |
| 4 | 50
28 | <i>Placulites circularis</i> B. | |
| 5 | 51^+
67^m | <i>Healcalyptus</i> <i>Pelatus</i> B.: | top view, broken |
| 6 | 49
51^m | <i>Nitochia decussata</i> B. | |
| 7 | $40\frac{1}{4}$
35 | <i>Porpacia quadriceps</i> B. | |

No. 586
 Slide T. Off Key Biscayne - 147. Fathoms.

- | | | | |
|------|------------------|-------------------------------------|-------------------------|
| No 1 | 58 1/2
81- | <i>Cyathocarpium trifensiles</i> B. | |
| 2 | 55 1/4
37 1/4 | <i>Podocypsis decurrens</i> B. | |
| 3 | 49 7/8
46 | <i>Eucyrtidium elongatum</i> B. | |
| 4 | 44
61 1/2 | <i>Triceratium trisulcum</i> B. | |
| 5 | 36 1/2
33 7/8 | <i>Halimma hexagonum?</i> Ehr | lithon, showing nucleus |
| 6 | 33 1/2
76 | <i>Hasturium Lamb-da</i> B. | with cloud |
| 7 | 45 1/2
61 1/2 | <i>Halicya binucleata</i> B. | |
| 8 | 40 1/2
57 1/2 | <i>Spongodiscus radiatus</i> B. | ✓ |

No. 587
Slide U. Off Key Biscayne, Depth not marked.

- | | | | |
|-------|---|-------------------------------------|-------------------------------------|
| No 1. | $\frac{69}{78\frac{1}{2}}$ | <i>Plectrospyris cancellatus</i> B. | ✓ |
| 2 | $\frac{68\frac{1}{8}}{86\frac{1}{2}}$ | <i>Eucyrtidium? inaequalis</i> B. | ✓ ✓ |
| 3 | $\frac{66\frac{1}{2}}{77\frac{1}{2}}$ | <i>Nitschia decussata</i> B. | |
| 4 | $\frac{62}{66}$ | <i>Placolites radiatus</i> Ehr. | with vermiform spirals closely set, |
| 5 | $\frac{48\frac{1}{4}}{26}$ | <i>Perinophelium Saturni</i> B. | |
| 6 | $\frac{42}{78\frac{2}{3}}$ | <i>Navicula Scutella</i> B. | |
| 7 | ✓ $\frac{40\frac{3}{4}}{73\frac{1}{2}}$ | <i>Dietyospyris elonga</i> B. | |
| 8 | ✓ $\frac{35}{65\frac{1}{2}}$ | <i>Plectrospyris cancellatus</i> B. | fine one |
| 9 | $\frac{33\frac{1}{4}}{65\frac{1}{2}}$ | <i>Podocyrhis Aegles</i> Ehr. | with good view of basal edge |
| ✓ 10 | ✓ $\frac{40}{60}$ | <i>Halicarya quadriforis</i> B. | fine one |
| 11 | $\frac{47\frac{1}{4}}{65\frac{3}{4}}$ | <i>Senosphera? Halimma?</i> | broken on underside, undetermined |
| 12 | $\frac{51\frac{1}{4}}{67\frac{1}{2}}$ | <i>Halicarthrum amplum</i> B. | |
| 13 | $\frac{51\frac{1}{2}}{78\frac{1}{4}}$ | " " B. | |
| 14 | $\frac{51\frac{1}{8}}{60\frac{1}{2}}$ | <i>Pterocodon stolonum</i> B. | |

Slide V. No. 588

Off Key Biscayne. 205 Fathoms

- | | | |
|------|---------------------------------------|--|
| No 1 | $\frac{57\frac{1}{4}}{84\frac{3}{4}}$ | } <i>Eucyrtidium</i> ; not found
<i>Halimma</i> |
| 2 | $\frac{55\frac{1}{4}}{64\frac{1}{4}}$ | |
| 3 | $\frac{52\frac{1}{4}}{28}$ | <i>Podocorys</i> <i>Aegles</i> Ehr. |
| 4 | $\frac{40^+}{34\frac{3}{4}}$ | <i>Ceratospyris</i> <i>tripes</i> B. |
| 5 | $\frac{36}{36\frac{1}{4}}$ | <i>Eucyrtidium</i> <i>compressum</i> B. |
| 6 | $\frac{39}{45}$ | " " " |
| 7 | $\frac{68\frac{1}{4}}{73\frac{1}{2}}$ | <i>Halimma</i> <i>Berwe</i> : Ehr. |
| 8 | " | <i>Diplospyris</i> <i>laxa</i> B. |
| 9 | $\frac{52\frac{1}{4}}{24\frac{1}{2}}$ | <i>Lithopora</i> <i>setigera</i> B. S.E. of last |
| 10 | $\frac{58}{74}$ | <i>Podocorys</i> ? |
| 11 | $\frac{56\frac{1}{4}}{28\frac{1}{2}}$ | <i>Lithobolus</i> <i>varians</i> B. |
| 12 | $\frac{51}{83}$ | <i>Histiastrium</i> <i>triceps</i> B. |
| | | <i>Phoreodon</i> ? <i>Probus</i> |

Slide W. No. 589

Off Key Biscayne 205 Fathoms

- | | | | |
|-------|--|---------------------------------------|---|
| No 1. | $\frac{53\frac{1}{2}}{29}$ | <i>Seratospyris parva</i> B. | |
| 2. | $\checkmark \frac{55\frac{3}{4}}{28\frac{1}{3}}$ | <i>Eucyrtidium Tritonis</i> B. | |
| 3. | $\frac{54}{43\frac{1}{4}}$ | <i>Halodiscus</i> | edge view () = <i>Discopsea umbilicata</i> ? Ehr |
| 4. | $\frac{70\frac{1}{2}}{78+}$ | <i>Podocyrtes Seegles</i> Ehr. | base view |
| 5. | $\checkmark \frac{69\frac{7}{8}}{39\frac{1}{4}}$ | <i>Sychnocanium trifenestratum</i> B. | |
| 6. | " | <i>Haliphormis oblonga</i> B. | See F. $\frac{55\frac{1}{4}}{80\frac{1}{4}}$ |
| 7. | $\frac{60\frac{1}{4}}{24}$ | <i>Chaetoceros falcatum</i> B. | |
| 8. | $\frac{60\frac{1}{4}}{23}$ | <i>Podocyrtes Seegles</i> Ehr. | a deformed specimen |
| 9. | $\frac{60}{33\frac{1}{3}}$ | <i>Coscinodiscus Parona</i> B. | large one, broken |
| 10. | $\checkmark \frac{63}{28\frac{3}{4}}$ | <i>Halicanthum amplum</i> | oblique view, showing nuclei |
| 11. | $\frac{59\frac{3}{4}}{40}$ | <i>Halicalyptus Petasus</i> B. | top view, broken |
| 12. | $\frac{54\frac{3}{4}}{29\frac{1}{2}}$ | <i>Diplopyris praetexta</i> B. | a fragment |
| 13. | $\checkmark \frac{57\frac{1}{4}}{33\frac{7}{8}}$ | <i>Eucyrtidium elongatum</i> B. | |
| 14. | $\frac{54\frac{1}{4}}{69\frac{1}{2}}$ | <i>Histiasterium Lambda</i> B. | with spongy tissue, well shown |
| 15. | $\frac{51\frac{1}{2}}{78\frac{3}{4}}$ | <i>Cornutella Fiscella</i> B. | on internal view |
| 16. | $\frac{51}{26\frac{7}{8}}$ | <i>Spirilla lata</i> Smith | |
| 17. | $\frac{49\frac{1}{4}}{39}$ | <i>Amphora</i> | |
| 18. | $\checkmark \frac{49}{20\frac{3}{4}}$ | <i>Halicalyptus Petasus</i> | oblique view |
| 19. | $\frac{44\frac{1}{2}}{25\frac{3}{4}}$ | <i>Podocyrtes decurrens</i> ? B. | |
| 20. | $\checkmark \frac{48\frac{1}{4}}{29+}$ | <i>Eucyrtidium expansum</i> B. | |
| 21. | $\frac{42\frac{1}{4}}{22\frac{1}{3}}$ | <i>Podocyrtes Seegles</i> Ehr. | good one |
| 22. | $\frac{40\frac{1}{2}}{48\frac{1}{4}}$ | <i>Triceratium setigerum</i> B. | |

Slide X. No. 590
 Off Key Biscayne. 147 Fathoms.

No 1.	$\frac{58\frac{1}{4}}{70\frac{3}{4}}$	<i>Chaetoceros falcatus</i> B.	
2	$\frac{65}{75\frac{3}{4}}$	<i>Porpeia quadriceps</i> , B.	E of long spines and near. <i>Dichoclis</i> } 8
3	$\frac{64\frac{1}{2}}{75\frac{3}{4}}$	<i>Haliarthrum amplum</i> B.	center large
4.	$\frac{65}{80}$	" <i>complexum</i> B.	
5	$\frac{39\frac{3}{4}}{66}$	<i>Histiastrum princeps</i> , var	good one
6	$\frac{41\frac{1}{8}}{64\frac{3}{4}}$	<i>Eucyplidium fultum</i> B.	large meshes
7	$\frac{49\frac{1}{4}}{71}$	" <i>compressum</i> B.	small "
8	$\frac{41\frac{1}{8}}{78\frac{1}{2}}$	<i>Cormistella obtusa</i> B.	spines } 8
9	$\frac{36\frac{3}{4}}{85}$	<i>Eucyplidium fusillum</i> B.	
10	$\frac{40\frac{1}{4}}{63}$	<i>Haliomma Cydippe</i> B.	with long spines

Slide G. No. 591.

Off Key Biscayne 205 Fathoms.

- No. 1 $\frac{60}{62\frac{1}{2}}$ *Chaetoceros falcatum* B. good one
- 2 $\frac{61}{70\frac{1}{4}}$ *Halicalypha Petasus* B. broken, but shows details well
- 3 $\frac{63}{20\frac{3}{8}}$ *Codonyx? clavatus?* B. inside view of a *tripetris* *Polysilia*
- 4 $\frac{45\frac{1}{4}}{21\frac{1}{4}}$ *Ostracodon? notatum?* top view

Slide No. 592

Off Key Biscayne - 205 Fathoms.

No 1	$\frac{69\frac{3}{4}}{71}$	<i>Halcalypha</i> <i>Pelorus</i> B.	fine n.
2	$\frac{50}{75\frac{3}{4}}$	" "	"
3	$\frac{70}{24\frac{1}{4}}$	<i>Eucyrtidium compressum</i> B.	
4	$\frac{69\frac{1}{4}}{47\frac{3}{4}}$	<i>Chaetoceros falcatum</i> B.	
5	"	<i>Cornulella clathrata</i> ? <i>p. profunda</i> Ehr.	
6	$\frac{67\frac{1}{4}}{33\frac{1}{4}}$	<i>Amphilectis obtusa</i> B.	
7	$\frac{66}{84\frac{1}{4}}$	<i>Porpeia quadriceps</i> ?	
8	$\frac{50\frac{1}{2}}{80}$	<i>Chaetoceros falcatum</i> B.	
9	$\frac{53\frac{7}{8}}{69\frac{1}{4}}$	" "	
10	$\frac{53\frac{3}{4}}{62}$	<i>Sychnocanium trifenestratum</i> B.	
11	$\frac{52\frac{1}{4}}{63\frac{3}{4}}$	<i>Porpeia quadriceps</i> B.	
12	$\frac{45\frac{1}{2}}{38\frac{3}{4}}$	<i>Swirella lata</i> ? Sm.	
13	$\frac{47\frac{1}{2}}{71\frac{1}{4}}$	<i>Eucyrtidium ampliatum</i> B.	on like N ^o 54 $\frac{54}{86\frac{1}{4}}$ but the head more spiny
14	$\frac{38}{67}$	<i>Diplospyrus laxa</i> B.	showing the fine net-work
15	$\frac{52}{78}$	<i>Eucyrtidium duplex</i> ? B.	a fragment, see J' $\frac{68\frac{1}{4}}{21\frac{1}{2}}$
16	$\frac{43}{26\frac{3}{4}}$	<i>Halcalypha hexagonella</i> B.	
17	$\frac{54\frac{1}{4}}{86}$	<i>Podocorys bulbosus</i> B.	
18	"	<i>Diploneis</i>	N. E. of above
19	$\frac{53}{61\frac{1}{4}}$	<i>Nitochia alternata</i> B.	new?
20	$\frac{53\frac{3}{4}}{64\frac{1}{2}}$	$\frac{45}{26\frac{1}{2}}$, $\frac{42\frac{3}{4}}{84\frac{1}{4}}$	<i>Cornulella clathrata</i> , B. <i>p. profunda</i> ,
21	$\frac{44}{62\frac{1}{2}}$	<i>Diploneis</i>	large
22	$\frac{62\frac{3}{4}}{41\frac{1}{4}}$	<i>Eucyrtidium auritum</i> ? Ehr.	
23	"	" <i>elongatum</i> B.	

Slide 'A' No. 593

Off Key Biscayne 205 Fathoms

No 1	$\frac{63}{83\frac{1}{2}}$	<i>Carpocarium Fragum</i> B.	
2	$\frac{52\frac{1}{2}}{67\frac{1}{2}}$	<i>Podocypis lutosus</i> B.	
3	$\frac{39\frac{1}{4}}{75\frac{1}{3}}$	<i>Halicypha: fragilis</i> B.	
4	$\frac{45\frac{1}{4}}{70\frac{7}{8}}$	<i>Comutella Fiscella?</i> B.	large fragment.
5	$\frac{51}{72}$		
6	$\frac{46\frac{3}{4}}{84\frac{1}{4}}$	<i>Lithothlypis prominens</i> B. var.	
7	$\frac{59}{64\frac{3}{4}}$	<i>Diclyospyris tenuis</i> B.	
8	$\frac{38\frac{1}{4}}{66\frac{5}{8}}$	" ?	2 fragments. heads of <i>Polycistis?</i>
9	$\frac{66\frac{1}{2}}{80}$	<i>Haliomma circumalucens?</i> B.	
10	$\frac{67}{27\frac{2}{3}}$	<i>Histiastrium triceps</i> B.	
11	$\frac{42\frac{1}{8}}{69\frac{1}{2}}$	<i>Diclyospyris? depressa</i> B.	See f' $\frac{65}{33\frac{1}{8}}$
12	$\frac{38}{63\frac{2}{3}}$	<i>Denticella? tridens</i> Ehr.	deformed
13	$\frac{46\frac{1}{4}}{67\frac{1}{2}}$	<i>Diclyocephala araneosa</i> B.	
14	$\frac{43}{69}$	" "	N.W. of the <i>Diclyospyris</i>
15	$\frac{46\frac{1}{2}}{77\frac{1}{4}}$	<i>Carpocarium: Fragum</i> B.	See A' $\frac{63}{83\frac{1}{2}}$
16	$\frac{46\frac{1}{4}}{68\frac{1}{4}}$	<i>Eucyrtidium compressum</i> B.	
17	$\frac{46\frac{1}{2}}{67}$	<i>Litholpera? pinnulipes?</i> B.	
20	$\frac{50\frac{1}{4}}{66\frac{1}{4}}$	<i>Diclyosphimus? fragilis</i> B.	

Slide B' No. 594

Off Key Biscayne. 205 Fathoms

- | | | | |
|-------|---------------------------------------|---------------------------|----------------------------|
| No. 1 | $\frac{61}{71}$ | Bacteriastrium | |
| 2 | $\frac{50\frac{1}{4}}{75\frac{1}{2}}$ | Amphora | |
| 3 | $\frac{44}{74\frac{1}{4}}$ | Cinnularia? musica | two rectangular fruitlets |
| 4 | $\frac{46\frac{1}{2}}{76\frac{1}{4}}$ | Amphora | S.E. of a small Sarcinella |
| 5 | $\frac{60}{34\frac{1}{2}}$ | Halimothecium complexum B | good |
| 6 | $\frac{54\frac{1}{2}}{63\frac{1}{3}}$ | Carporacium Fragum B. | |

Slide 6' No. 595

Off Key Biscayne 205 Fathoms

- | | | | |
|------|---------------------------------------|-----------------------------------|-----------------------|
| No 1 | $\frac{54\frac{1}{4}}{20\frac{1}{4}}$ | <i>Amphora</i> | |
| 2 | $\frac{49\frac{1}{4}}{80\frac{1}{2}}$ | <i>Eupodiscus radiatus</i> B | |
| 3 | " | <i>Amphitetras cuspidata</i> B | S. E. of above |
| 4 | $\frac{50\frac{1}{2}}{76\frac{1}{8}}$ | <i>Campylo discus vagans</i> B | |
| 5 | $\frac{51}{65\frac{1}{2}}$ | <i>Pinnularia musica</i> B. | |
| 6 | $\frac{40}{65\frac{1}{4}}$ | <i>Eucyrtidium altum</i> ? B. | |
| 7 | $\frac{40^+}{66\frac{1}{8}}$ | <i>Achnoplyctus</i> 8 rays | |
| 8 | $\frac{42}{60\frac{1}{4}}$ | <i>Littibotrys obscura</i> B | showing lamination |
| 9 | $\frac{49}{82}$ | <i>Flabellarthrum complexum</i> B | nucleus and rays only |
| 10 | $\frac{42\frac{1}{2}}{65\frac{2}{3}}$ | <i>Littibotrys varians</i> B | |

D' No. 596

Off Key Biscayne ... 65 Fathoms

- No 1 $\frac{62\frac{1}{4}}{93}$ *Lychnocanium?* paradoxum B.
- 2 $\frac{52}{69}$ *Triceratium* Palma B.
- 3 $\frac{48\frac{1}{2}}{75}$ *Diploneis pulchra* B.
- 4 $\frac{33}{89\frac{3}{4}}$ *Porpeia quadriceps* B end view
- 5 $\frac{45\frac{3}{4}}{31}$ *Lychnocanium* bifenestratum B.
- 6 $\frac{59}{65\frac{1}{2}}$ *Healomma?* (too imperfect to determine) broken, showing nucleus and rays
- 7 $\frac{43}{30-}$ *Eucyrtidium Tritonis* B.
- 8 $\frac{44\frac{1}{8}}{29\frac{1}{2}}$ *Nischiia* inaeolepta B compare with *N. plana*, Smith
- 9 " *Triceratium* schzerum B up view
- 10 $\frac{51}{23+}$ *Hyalodiscus radiatus*
- 11 $\frac{63\frac{1}{4}}{77}$ *Histiocentrum* triiceps B.
- 12 $\frac{54\frac{3}{4}}{25\frac{3}{4}}$ *Suirella lata?* Smith good one
- 13 $\frac{63\frac{1}{2}}{80+}$ *Leptotheca* prominens B.

E' No. 597

Off Key Biscayne 65 Fathoms

No 1	$\frac{42\frac{1}{8}}{90\frac{3}{4}}$	<i>Auliscus pinnosus</i> B.	
2	$\frac{70}{90\frac{1}{2}}$	<i>Podocryptus bulbosus</i> B.	
3	$\frac{61\frac{1}{2}}{64\frac{1}{2}}$	<i>Halacalypha Petasus</i> B.	slightly near, fine one
4	$\frac{60\frac{1}{4}}{68\frac{3}{4}}$	<i>Nitschia decussata</i> B.	
5	$\frac{60\frac{1}{2}}{26\frac{1}{8}}$	<i>Halimomalereonata</i> B.	broken on under side, and nucleus lost?
6	$\frac{60}{71\frac{1}{4}}$	<i>Porpeia quadriceps</i> B.	
7	$\frac{55}{74\frac{1}{2}}$	" " "	
8	$\frac{50}{24\frac{1}{2}}$	<i>Coscinodiscus Parma</i> B.	fine one
9	$\frac{49}{38\frac{1}{4}}$	<i>Hydrodictya concentrica</i> B.	
10	$\frac{46\frac{1}{4}}{63\frac{1}{8}}$	<i>Eucyrtidium univittum</i> Ehr.	
11	$\frac{45\frac{1}{2}}{78}$	<i>Histiastrum concentricum</i> B.	broken
12	$\frac{44\frac{1}{4}}{64}$	<i>Porpeia quadriceps</i> B.	end view
13	$\frac{36\frac{1}{2}}{44\frac{1}{4}}$	<i>Asteromphalus</i>	a fragment, very faint
14	$\frac{32\frac{1}{2}}{25}$	<i>Podocyclops Azules</i> Ehr.	
15	$\frac{36\frac{1}{4}}{65\frac{1}{2}}$	<i>Dictyophimus Glaucis</i> B.	
16	$\frac{54\frac{1}{4}}{77\frac{1}{2}}$	<i>Orthorhopalum spongiosum</i> B.	
17	$\frac{39\frac{1}{8}}{80}$	<i>Eucyrtidium prolongatum</i> B.	See C $\frac{36\frac{1}{4}}{32\frac{1}{4}}$
18	$\frac{38}{85\frac{1}{2}}$	<i>Leptodictya obscura</i> B.	
19	$\frac{34\frac{1}{8}}{75\frac{2}{3}}$	<i>Eucyrtidium turgidulum</i> B.	
20	$\frac{53\frac{1}{2}}{81\frac{1}{2}}$	.....	serpentine spicule

Slide F¹ No. 598.

Off Key Biscayne 65 Fathoms

- | | | | | |
|------|---|--|-------------------|------------------------|
| No 1 | $\frac{64\frac{3}{4}}{35\frac{1}{4}}$ | <i>Diclyopyxis depressa</i> B. | edge view | See A. $\frac{42}{70}$ |
| 2 | $\frac{55\frac{1}{4}^+}{50\frac{1}{4}}$ | <i>Haliphormis?</i> <i>elonga</i> B. | | See W. |
| 3 | " | <i>Saridella</i> <i>calu.</i> <i>Smith</i> | S.W. of preceding | |
| 4 | $\frac{54\frac{1}{8}}{85\frac{1}{4}}$ | <i>Plicatium</i> <i>setigerum</i> B. | left view | |
| 5 | $\frac{46}{69\frac{1}{8}}$ | <i>Coccinidiscus</i> <i>Parma?</i> B. | | |
| 6 | $\frac{32\frac{1}{2}}{45}$ | <i>Kampylodiscus</i> <i>vagans</i> B. | oblique | |
| 7 | $\frac{31\frac{1}{4}}{64\frac{1}{2}}$ | <i>Halicanyna</i> <i>quadriforis</i> B. | | |
| 8 | $\frac{62\frac{1}{2}}{27\frac{3}{4}}$ | <i>Podocypis</i> <i>Aegles</i> Ehr. var. | | |
| 9 | $\frac{57\frac{1}{8}}{85\frac{1}{2}}$ | <i>Halicarthurum</i> <i>complexum</i> B. | | |

G' No 599

Off. Key Biscayne... 147 Fathoms

- | | | | |
|------|---------------------------------------|---|------------------------------------|
| No 1 | $\frac{63\frac{1}{4}}{70\frac{1}{8}}$ | <i>Campylodiscus vagans</i> B. | |
| 2 | $\frac{67}{30}$ | <i>Podocorytus Negles</i> Ehr | fine one |
| 3 | $\frac{61}{86}$ | <i>Caryophidium compressum?</i> B | |
| 4 | $\frac{58\frac{1}{2}}{35\frac{1}{4}}$ | <i>Coccinodiscus?</i> Parma B. | |
| 5 | $\frac{43\frac{1}{4}}{74\frac{3}{4}}$ | <i>Halimma</i> Parma <i>Merina</i> B
<small>belonging to Merina</small> | |
| 6 | $\frac{45}{27}$ | <i>Styrodictya polygonalis</i> B | |
| 7 | " | <i>Triceratium</i> Parma? B. | small one to right of preceding |
| 8 | " | <i>Histiastrium brevis</i> B | W. of <i>S. polygonalis</i> above. |
| 9 | $\frac{33\frac{1}{2}}{75}$ | <i>Pinnularia bifolia</i> B | small |
| 10 | $\frac{58}{26\frac{1}{8}}$ | <i>Halicya quadriforis</i> B. | |
| 11 | $\frac{57\frac{1}{4}}{35\frac{7}{8}}$ | " " | good one. |
| 12 | $\frac{54\frac{1}{2}}{65\frac{1}{4}}$ | <i>Histiastrium quadriceps</i> B. | |
| 13 | $\frac{54\frac{1}{8}}{61\frac{1}{2}}$ | <i>Leptobotrya?</i> <i>multispinata</i> B. | |
| 14 | $\frac{58\frac{3}{4}}{74\frac{1}{2}}$ | <i>Pinnularia musica</i> B. | |
| 15 | $\frac{63\frac{1}{4}}{74\frac{1}{2}}$ | <i>Sporogodiscus Saturni</i> B. | |
| 16 | $\frac{67}{69\frac{1}{8}}$ | <i>Orthocapulum</i> | short one |
| 17 | $\frac{65\frac{7}{8}}{65}$ | <i>Styrodictya spiralis</i> B. | good one. See L' 50, 1994 |
| 18 | $\frac{42}{68\frac{1}{2}}$ | <i>Leptopera?</i> <i>brevis</i> B | E. See L' 55 1/4, 62 1/2 |
| 19 | $\frac{38\frac{7}{8}}{77}$ | <i>Styrodictya polygonalis?</i> B | fine one |
| 20 | $\frac{30\frac{3}{4}}{72\frac{1}{2}}$ | <i>Reddallia fialatella?</i> | very large one |

GH' No. 600

Off Key Biscayne depth. not marked

- | | | | | | | | | |
|---------------|--------------------------|--|---------------|----------------|-----------------------|---------------|--------------------------|--|
| No 1 | 34
37 1/4 | Porpeia quadriceps B. | good one | | | | | |
| 2 | 61 1/2
29 1/4 | Triceratium Parma B. | | | | | | |
| 3 | 52 1/2
80 1/2 | Coscinodiscus Parma B. | very fine one | | | | | |
| 4 | 50
60 1/2 | Dictyocha Producta B. | | | | | | |
| 5 | 20 1/2
17 | Nitzschia plana: limit | | | | | | |
| 6 | 51
44 1/2 | Chaetoceros falcatum B. | | | | | | |
| 7 | 44 1/2
70 1/2 | Coscinodiscus Parma B. | | | | | | |
| 8 | ✓ 42 1/2
64 | Phylodictya marginalis B. | | | | | | |
| 9 | ✓ 40 3/4
66 | Dictyocephala trilobis B. | fine | | | | | |
| 10 | 41
81 1/4 | Porpeia quadriceps B. | | | | | | |
| 11 | 38 1/4
61 1/2 | " " | | | | | | |
| 12 | 33
73 2/3 | Amphibia | | | | | | |
| 13 | 50
86 | Histioglossum quadriceps | | | | | | |
| 14 | 55 1/4
86 1/2 | Lithothamnion ornithocephala | | | | | | |
| 15 | 55 1/4
62 1/2 | Lithothamnion biceps B. | | | | | | |
| 16 | 49
30 | Podocapsa? Dictyophimus Blanci B. | | | | | | |
| 17 | ✓ 46
71 1/4 | Halicalyptra? hexagonalis B. | | | | | | |
| 18 | 42 1/4
76 1/3 | <table border="0"> <tr> <td>Dictyophimus</td> <td>hexagonalis B.</td> <td rowspan="2">} See No 40
65 2/3</td> </tr> <tr> <td>Halicalyptra?</td> <td>Halicalyptra? Alveola B.</td> </tr> </table> | Dictyophimus | hexagonalis B. | } See No 40
65 2/3 | Halicalyptra? | Halicalyptra? Alveola B. | |
| Dictyophimus | hexagonalis B. | } See No 40
65 2/3 | | | | | | |
| Halicalyptra? | Halicalyptra? Alveola B. | | | | | | | |

S' No. 601

Off Key Biscayne - Depth not marked

- | | | | |
|-------|---------------------------------------|-----------------------------------|---------------------|
| No. 1 | $\frac{64\frac{1}{2}}{82\frac{1}{2}}$ | <i>Pinnularia limbatā</i> B. | |
| 2 | $\frac{38}{74\frac{1}{2}}$ | <i>Halicalyptis? fragilis</i> B. | good one |
| 3 | $\frac{62\frac{1}{2}}{76\frac{1}{4}}$ | <i>Halicalyptis Petrus</i> B. | |
| 4 | $\frac{44\frac{1}{2}}{62\frac{1}{4}}$ | <i>Amphipentis flexuosus</i> B. | |
| 5 | $\frac{38}{76\frac{3}{4}}$ | <i>Eucyrtidium lineatum</i> | good one |
| 6 | $\frac{41}{80}$ | <i>Eucyrtidium prolongatum</i> B. | small |
| 7 | $\frac{50\frac{1}{2}}{71\frac{1}{2}}$ | <i>Carpocanium? fragum</i> B. | basal teeth broken. |

f. No. 602

Off Key Biscayne... depth not marked

- | | | | |
|------|--|--|--|
| No 1 | $\frac{53\frac{1}{2}}{71\frac{3}{4}}$ | <i>Chaetoceros falcatum</i> B. | |
| 2 | v $\frac{64}{76\frac{1}{2}}$ | <i>Eucyrtidium</i> | |
| 3 | $\frac{55\frac{1}{2}}{66\frac{1}{2}}$ | <i>Concodiscus</i> ^{memosus} reticulatus B.
_{υγκος = swelling} | for top view see (2) $\frac{48\frac{1}{4}}{64\frac{1}{4}}$ |
| 4 | $\frac{49\frac{1}{2}}{64\frac{1}{4}}$ | <i>Pinnularia limbata</i> B. | |
| 5 | $\frac{48}{88+}$ | <i>Campylo-discus vagans</i> B. | |
| 6 | $\frac{46\frac{1}{2}}{87\frac{1}{8}}$ | <i>Pinnularia decora</i> B. | side view |
| 7 | $\frac{39}{85+}$ | <i>Sychnocanium trifenestratum</i> B. | |
| 8 | $\frac{36\frac{1}{4}}{23\frac{1}{3}}$ | <i>Pinnularia musica</i> B. | |
| 9 | $\frac{35\frac{1}{4}}{82}$ | <i>Pterocodon? Pholus</i> | |
| 10 | $\frac{68\frac{1}{4}}{84\frac{2}{3}}$ | <i>Eucyrtidium compressum?</i> B. | |
| 11 | l. $\frac{68\frac{1}{4}}{71\frac{1}{2}}$ | <i>Eucyrtidium ? duplex</i> B. | |
| 12 | x $\frac{66\frac{1}{2}}{20\frac{1}{4}}$ | <i>Ceratopogyris parva</i> B. | under side |
| 13 | $\frac{53\frac{3}{4}}{23\frac{7}{8}}$ | ? " " | top view |
| 14 | $\frac{40\frac{1}{4}}{77\frac{1}{4}}$ | <i>Podocorytes Seyles</i> Ehr | |
| 15 | $\frac{32\frac{1}{4}}{74\frac{1}{4}}$ | " " | |

'H' No. 603

Off. Key Biscayne ... Depth cont. marked (turned brown by H³)

- | | | | |
|---|---------------------------------------|------------------------------------|---------------------------------|
| 1 | $\frac{64\frac{7}{8}}{25+}$ | <i>Amphora</i> | |
| 2 | $\frac{64}{81+}$ | <i>Dactylophimus? faliferus</i> B | |
| 3 | $\frac{44}{78}$ | <i>Plectospyris cancellatus</i> B | good one see U. |
| 4 | $\frac{37\frac{1}{8}}{77\frac{3}{4}}$ | <i>Spirilla cala?</i> Smith | " " |
| 5 | $\frac{22\frac{1}{4}}{82\frac{1}{3}}$ | <i>Pinnularia bicuspis</i> B. | small one constituted in middle |
| 6 | $\frac{38\frac{1}{4}}{47}$ | <i>Helicalypha Petasus</i> B. | small one |
| 7 | $\frac{41\frac{1}{2}}{63\frac{1}{4}}$ | <i>Grammatophora arcuaria</i> B | 1 |
| 8 | $\frac{36\frac{1}{2}}{65\frac{1}{8}}$ | <i>Cucyrtidium acuminatum?</i> Str | good one |
| 9 | $\frac{36\frac{1}{4}}{75+}$ | <i>Lithothamnion obscura</i> B | |

L' No. 604

(off Key Biscayne 65 Fathoms)

- | | | | |
|------|---------------------------------------|----------------------------------|---------------------------------|
| No 1 | $\frac{52\frac{1}{2}}{83\frac{1}{4}}$ | <i>Diplaspis? spinifera</i> Z. | |
| 2 | $\frac{53\frac{1}{4}}{83\frac{1}{4}}$ | <i>Podocyrtes Aegles</i> Ehr. | |
| 3 | " | | Branching and lobed Spongelite? |
| 4 | $\frac{50}{19\frac{3}{4}}$ | <i>Flustrella spiralis?</i> Ehr. | |
| 5 | $\frac{45^+}{80^+}$ | <i>Podocyrtes Aegles</i> Ehr. | |
| 6 | $\frac{43\frac{1}{2}}{73}$ | <i>Coscinodiscus Parma</i> Ehr. | algae view, broken |
| 7 | $\frac{33}{79\frac{3}{4}}$ | <i>Perinephelium Saturni</i> B. | |
| 8 | $\frac{32\frac{1}{2}}{31^+}$ | <i>Podocyrtes decurrens</i> B. | tip view. |

M' No. 605

1877 Key Biscayne 65 fathoms

- | | | | |
|-----|---------------------------------------|----------------------------------|---|
| 101 | $\frac{62\frac{1}{2}}{24\frac{1}{2}}$ | ? | curious piece of coarse net work |
| 2 | $\frac{57\frac{1}{4}}{25\frac{1}{2}}$ | <i>Stylo dictya marginata</i> B. | |
| 3 | $\frac{54\frac{1}{4}}{83\frac{1}{4}}$ | <i>Halimnrium complexum</i> B. | good but not complete |
| 4 | $\frac{53}{30}$ | <i>Halimnrya quadrupris</i> B. | |
| 5 | " | <i>Campyrodiscus vagans</i> B. | Edge near, good, SE of preceding |
| 6 | $\frac{50\frac{1}{2}}{77\frac{1}{4}}$ | <i>Amphipentis flexuosus</i> B. | ... 4 sided one |
| 7 | $\frac{48\frac{1}{2}}{72\frac{1}{4}}$ | <i>Halimma circumlocens</i> B. | |
| 8 | $\frac{31\frac{1}{4}}{26}$ | " <i>crenata</i> B. | broken on underside and neckless zone, see 5. |

N^o No. 606.

61' Key Biscayne 65 fathoms

- | | | | |
|------|---------------------------------------|------------------------------------|----------------------------------|
| No 1 | $\frac{60\frac{1}{4}}{90\frac{3}{4}}$ | <i>Histiastrium briceps</i> B. | good one |
| 2 | $\frac{58\frac{7}{8}}{74\frac{1}{4}}$ | <i>Podocryptis decurrens</i> B. | " |
| 3 | $\frac{50}{82\frac{3}{4}}$ | <i>Triceratium Parma</i> B. | " |
| 4 | $\frac{47\frac{3}{4}}{30}$ | <i>Dictyopyxis depressa</i> B. | interior view " |
| 5 | $\frac{45}{70\frac{1}{2}}$ | <i>Spongodiscus? Conix</i> B. | |
| 6 | $\frac{43\frac{1}{4}}{29\frac{3}{4}}$ | <i>Coronatella Fucella?</i> B. | with large meshes |
| 7 | $\frac{41\frac{1}{8}}{29\frac{3}{4}}$ | <i>Podocryptis Agles</i> Ehr | |
| 8 | $\frac{39\frac{1}{2}}{30}$ | " " " " | showing both sets of basal teeth |
| 9 | $\frac{28\frac{1}{2}}{33\frac{1}{2}}$ | <i>Coronatella Fucella?</i> B. | with large meshes |
| 10 | $\frac{29\frac{1}{2}}{27}$ | <i>Spongodiscus transversus</i> B. | |

61' No. 607

65 fathoms. Off. Key Biscayne

- | | | | |
|-------|---------------------------------------|---|------------------------------|
| No. 1 | $\frac{64\frac{1}{2}}{71\frac{1}{2}}$ | <i>Halicya crosa</i> B. | good side view |
| 2 | " | <i>Podocryptis Agles</i> Ehr. | N. E. of above |
| 3 | $\frac{58\frac{3}{4}}{78\frac{7}{8}}$ | <i>Vitellina cristata</i> B.
(a small box) | part below a <i>Diploria</i> |
| 4 | $\frac{47\frac{1}{2}}{81\frac{1}{2}}$ | <i>Histiastrium briceps</i> B. | with clord |
| 5 | $\frac{40}{82}$ | <i>Perinophthium Saturni</i> B. | |
| 6 | " | <i>Histiastrium briceps</i> B. | |
| 7 | " | <i>Orthorhopalum spinosum</i> B. | |
| 8 | $\frac{32}{54}$ | | large net work of sponge? |
| 9 | $\frac{48}{34\frac{1}{4}}$ | <i>Amphitetras cuspidata</i> B. | |
| 10 | $\frac{55\frac{1}{2}}{22\frac{1}{4}}$ | <i>Halicya quadriforis</i> B. | |
| 11 | $\frac{55}{75}$ | <i>Podocryptis decurrens</i> B. | top view good |
| 12 | $\frac{55}{74\frac{3}{4}}$ | <i>Amphitetras obtusa</i> B. | small |

D' No. 608

Off Key Biscayne - 65 Fathoms

- | | | | |
|------|---------------------------------------|----------------------------------|--|
| No 1 | $\frac{59}{77}$ | <i>Dictyocephala araneosa</i> B. | |
| 2 | $\frac{59\frac{1}{4}}{23}$ | <i>Halicarya trinucleata</i> B. | |
| 3 | $\frac{54\frac{3}{8}}{75\frac{3}{4}}$ | <i>Dictyoptyxis oblonga</i> B. | |
| 4 | $\frac{54\frac{3}{4}}{28\frac{1}{4}}$ | <i>Eucyrtidium compressum</i> B. | See 2 |
| 5 | $\frac{48}{40}$ | <i>Halicarthrum amplum</i> B. | interior view showing nucleus and rays |
| 6 | $\frac{47\frac{1}{4}}{26\frac{2}{3}}$ | <i>Halicarya erosa</i> B. | side view, good view of nucleus |

Q' No 609

Off Key, Biscayne. 127 Fathoms

No 1	$\frac{53\frac{1}{2}}{60\frac{1}{2}}$	<i>Diplospyrus praetexta</i> B.	good one
2	$\frac{66\frac{1}{2}}{22\frac{1}{4}}$	<i>Hyalalyptra Petasus</i> B.	oblique
3	$\frac{65}{70\frac{1}{2}}$	<i>Asteromphalus</i>	a fragment near point of a <i>Licmophora</i>
4	$\frac{64\frac{1}{4}}{25\frac{1}{4}}$	<i>Entomoncis</i>	curious fragment, too imperfect to determine
5	$\frac{55\frac{1}{8}}{17\frac{1}{2}+}$	<i>Kalimma apposta</i> B.	
6	$\frac{23\frac{1}{4}}{36\frac{3}{4}}$	<i>Spiricella Cata?</i> Smith	
7	$\frac{53\frac{1}{4}}{30\frac{3}{8}}$	<i>Syngonium tripenestratum</i> B.	
8	$\frac{52\frac{1}{8}}{79\frac{1}{8}}$	<i>Odontella minima</i> B.	4 fragments at upper end of a <i>Pecten</i> ^{prae-texta}
9	$\frac{50\frac{1}{2}}{80\frac{3}{4}}$	<i>Porpsea quadriceps</i> B.	
10	$\frac{49\frac{1}{2}}{29}$	<i>Hedimma?? spingiosa</i> B.	
11	$\frac{48\frac{1}{2}}{75\frac{1}{2}+}$	<i>Hebraea quadriforis</i> B.	
12	$\frac{48\frac{1}{4}}{82}$	<i>Bacteriostrom</i>	N.W. of a large <i>Podocypus?</i>
13	$\frac{48}{81\frac{1}{4}}$	<i>Podocypis Americana</i> C.	
14	$\frac{48\frac{1}{4}}{64}$	<i>Oncodiscus venosus</i> B.	See $\frac{55\frac{1}{2}}{66\frac{1}{2}}$ and $\frac{56\frac{1}{2}}{35\frac{1}{2}}$
15	$\frac{46\frac{1}{4}}{86}$	<i>Spiricella Cata?</i> Smith	cellular unit
16	$\frac{39\frac{1}{8}}{64\frac{1}{4}}$	" " "	constructed
17	"	<i>Eupodiscus radiatus</i> B.	SW of above
18	$\frac{37\frac{1}{4}}{62\frac{3}{4}}$	<i>Eucypridium foraminosum</i> B.	
19	$\frac{36\frac{1}{4}}{80\frac{3}{4}}$	<i>Histiostrom concentricum</i> B.	
20	$\frac{29\frac{1}{2}}{67\frac{1}{4}}$	<i>Diploneis fulvra</i> B.	a fragment

R' No 610 (1/2) Ry Biscayne

- No 1 $\frac{66\frac{1}{4}}{25\frac{1}{2}}$ sporeball: 4 rays with knobs $\frac{1}{3}$ etc.
 2 $\frac{65}{72}$ *Grammatophora incurva* B.
 3 $\frac{54\frac{3}{4}}{80\frac{1}{4}}$ *Diploneis fulchra*? B. small one
 4 $\frac{51\frac{7}{8}}{74\frac{3}{4}}$ *Distyphysis depressa* B.
 5 $\frac{49}{85\frac{2}{3}}$ *Coscinodiscus* Parvia
 6 $\frac{49\frac{1}{2}}{27\frac{7}{8}}$ *Diploneis fulchra*? small one
 7 $\frac{42\frac{3}{4}}{67}$ *Eucyrtidium* c
 8 $\frac{31}{80\frac{1}{4}}$ *Navicula carinata* B. See I. $\frac{52\frac{1}{2}}{71\frac{1}{4}}$
 9 $\frac{66}{68\frac{1}{2}}$ *Littorina setigera* B.

S' No. 611

off Key Biscayne, depth not marked

- | | | | |
|------|---------------------------------------|------------------------------------|--|
| No 1 | $\frac{69\frac{3}{4}}{86\frac{7}{8}}$ | <i>Halyscarya polyactis</i> B. | |
| 2 | $\frac{63\frac{1}{2}}{63\frac{7}{8}}$ | <i>Pinnularia musica</i> B. | good one |
| 3 | $\frac{66\frac{1}{4}}{50}$ | <i>Styloclitza concentrica</i> B. | See Q' $\frac{48\frac{1}{4}}{64\frac{1}{4}}$ and J' $\frac{55}{66\frac{1}{2}}$ |
| 4 | $\frac{63\frac{1}{4}}{33\frac{1}{4}}$ | <i>Encodiscus venosus</i> B. | |
| 5 | $\frac{60}{71\frac{1}{2}}$ | | See B. $\frac{54\frac{1}{2}}{71\frac{1}{4}}$ |
| 6 | $\frac{50\frac{1}{2}}{75\frac{1}{4}}$ | <i>Styloclitza polygonalis?</i> B. | with flexure bands |
| 7 | $\frac{49}{78\frac{1}{4}}$ | " <i>marginata</i> - B. | with broad margin |
| 8 | $\frac{49\frac{1}{8}}{37\frac{1}{2}}$ | <i>Triceratium Parsoni</i> B. | |
| 9 | $\frac{46\frac{1}{2}}{34\frac{1}{4}}$ | <i>Spongodiscus levis</i> B. | |
| 10 | $\frac{32\frac{1}{4}}{66\frac{7}{8}}$ | <i>Cornutella? alba</i> B. | top view, See K' $\frac{31\frac{1}{2}}{82}$ for side view |

Off Key. Pis capre Depth not marked

- | | | | |
|------|--|--|--|
| No 1 | $\frac{58}{36\frac{3}{4}}$ | <i>Pinnularia bifolia</i> B. | near a <i>Dedyche</i> |
| 2 | $\frac{65}{77\frac{1}{2}}$ | <i>Grammatophora incurva</i> B. | |
| 3 | $\frac{56}{45\frac{2}{3}}$ | <i>Euprosopia</i> ? on <i>Strombos</i> ? | fragment too imperfect to be characterized |
| 4 | $\frac{55\frac{1}{4}}{80\frac{2}{3}}$ | <i>Dietycephala araneosa</i> B. | very faint, with fragments, inf. head. |
| 5 | $\sqrt{\frac{54\frac{1}{2}}{29\frac{1}{2}}}$ | <i>Dietyopyris cordatus</i> B. | |
| 6 | $\frac{53\frac{1}{4}}{89\frac{1}{2}}$ | <i>Pinnularia</i> <i>Sintriculus</i> B.
<small>(a little lost)</small> | small, possibly for <i>ultra</i> |
| 7 | $\frac{50}{26}$ | <i>Porpeia quadriceps</i> B. | oblique view |
| 8 | $\frac{33\frac{1}{4}}{80\frac{1}{4}}$ | <i>Amphipentax ornata</i> ? | |
| 9 | " | <i>Biddulphia pulchella</i> ? | two frustules |

U¹ No. 613

Off Key B is canyon, depth not marked

- | | | | | |
|-------|--|--|-----------------------|--------------------|
| No 1. | $\frac{69}{71\frac{3}{4}}$ | <i>Eucyrtidium altum</i> B | with large nodules | See A ' |
| 2 | $\frac{65\frac{1}{2}}{69}$ | <i>Eucyrtidium simplex</i> B. | | See $\frac{7}{2}$ |
| 3 | $\frac{56\frac{1}{2}}{68}$ | <i>Histiasterium biceps</i> B | | |
| 4 | " | <i>Eucyrtidium virgideolum</i> B | | |
| 5 | " | <i>Placolites radiatus</i> Ehr. Lichen | | |
| 6 | $\frac{58\frac{1}{2}}{30\frac{2}{3}}$ | <i>Halimona opposita</i> B | | |
| 7 | $\frac{46\frac{7}{8}}{37\frac{1}{2}+}$ | <i>Podocypus Anger</i> Ehr | | |
| 8 | $\frac{41\frac{3}{4}}{35}$ | <i>Lithothamnium varians?</i> B | | |
| 9 | $\frac{41\frac{1}{2}}{37\frac{1}{4}}$ | <i>Placolites radiatus</i> Ehr. | | |
| 10 | $\frac{39+}{86\frac{3}{4}+}$ | <i>Eucyrtidium ampliatum</i> B. | | |
| 11 | $\frac{38\frac{1}{2}}{88\frac{1}{4}}$ | <i>Halimona Beres?</i> Ehr. | | |
| 12 | $\frac{34\frac{1}{4}}{27\frac{1}{4}}$ | <i>Diplospyris cancellata</i> B. | | |
| 13 | $\frac{34\frac{3}{4}}{82\frac{7}{8}}$ | <i>Xoscinodiscus Parma</i> B. | | |
| 14 | $\frac{36+}{87\frac{1}{8}}$ | <i>Euprodiscus radiatus</i> B. | | |
| 15 | " | <i>Eucyrtidium</i> | fragment SE. of alone | undetermined |
| 16 | $\frac{32\frac{1}{4}}{41\frac{3}{4}}$ | <i>Lithothamnium? spiniger</i> B | | |
| 17 | $\frac{30\frac{1}{2}}{87\frac{1}{8}}$ | <i>Diplospyris spinigera</i> B | | |
| 18 | $\frac{30+}{88\frac{3}{4}+}$ | <i>Histiasterium biceps</i> B. | | |
| 19 | $\frac{29\frac{1}{2}}{86\frac{1}{4}}$ | <i>Lithothamnium varians</i> B. | | |
| 20 | $\frac{28}{21\frac{1}{4}}$ | <i>Spongodiscus? Ceruus?</i> B. | | |

Off Key Biscayne

Depth not marked

No	Depth	Species	Notes
1	$\frac{63}{75\frac{3}{4}}$	<i>Halimma circumlucens</i> B	with many marginal spines
2	$\frac{60}{68\frac{1}{2}}$	<i>Spongodiscus leucoxanthus</i> B	
3	$\frac{59\frac{1}{4}}{70\frac{1}{8}}$	<i>Halicarya quadriforis</i> B.	
4	$\frac{57\frac{3}{4}}{72\frac{1}{4}}$	<i>Spongodiscus Saturni</i> B	
5	$\frac{57\frac{1}{2}}{74\frac{1}{4}}$	<i>Histiastrum briceps</i> B	
6	$\frac{57}{76\frac{1}{2}}$	<i>Amphitetras cuspidata</i> B	
7	$\frac{57\frac{3}{4}}{81}$	<i>Eucyrtidium longidulum</i> B.	
8	$\frac{61\frac{1}{2}}{88\frac{1}{2}}$	<i>Chaetoceros falcatus</i> B.	
9	$\frac{55\frac{1}{4}}{81\frac{1}{3}}$	<i>Haliarthrum complexum</i> B	
10	$\frac{55}{81\frac{1}{4}}$	<i>Stylodictya concentrica</i> B	
11	$\frac{54\frac{1}{4}}{28\frac{3}{4}}$	" "	
12	$\frac{57}{81}$ $\frac{57}{84\frac{1}{2}}$	<i>Halicarya crosa</i>	side view etc?
13	$\frac{47\frac{1}{2}}{65\frac{1}{2}}$	<i>Porpeia quadriceps</i> B	near end of a large spicule
14	$\frac{47\frac{1}{2}}{65\frac{1}{2}}$ $\frac{60\frac{1}{4}}{84\frac{1}{2}}$	<i>Spongodiscus radiatus</i> B	
15	$\frac{36}{30\frac{1}{4}}$	<i>Pinnularia peregrina</i> ?	
16	$\frac{42\frac{3}{4}}{20\frac{3}{4}}$	<i>Lychnocanium paradoxum</i> ,	fragment
17	$\frac{52}{65\frac{1}{4}}$	<i>Gyrosigma sigma</i> B	large sigmoid <i>Stauractis sigma</i> ? etc
18	$\frac{41}{26\frac{3}{4}}$	<i>Halicalypta</i> ? <i>hexagonalis</i> ? B	
19	$\frac{60}{55}$	<i>Halicalypta laevis</i> B.	

W. No. 615

Position 17. 300 fathoms

- | | | | |
|------|---------------------------------------|------------------------------|--|
| No 1 | $\frac{60\frac{1}{2}}{62\frac{3}{4}}$ | <i>Auliscus pruinatus</i> B. | |
| 2 | $\frac{53}{89\frac{3}{4}}$ | <i>Dictyocha quadrata</i> B. | side view with long spines looking a cast of ^(a <i>Obolothelasma</i>) |
| 3 | $\frac{48\frac{1}{2}}{75\frac{1}{2}}$ | <i>Thalassium triceps</i> | |
| 4 | $\frac{44\frac{1}{4}}{83}$ | <i>Halimma Bercei</i> ? Em. | small one with large meshes |
| 5 | $\frac{40\frac{1}{2}}{86\frac{1}{2}}$ | <i>Actinoptychus</i> . | 10 rayed |

X' No. 616.

Position 17, 300 fathoms

No 1	$\frac{65}{68\frac{1}{2}}$	<i>Euprodicus opacu</i> B	... ..	... ..	... ..
2	$\frac{55\frac{1}{4}}{25\frac{1}{2}}$	<i>Lothopora phoenocgia</i> B.			
3	$\frac{50\frac{1}{2}}{25}$	<i>Eucyrtidium simplex</i> B.	... ..	... ..	good one
4	$\frac{44\frac{3}{4}}{76}$	<i>Hishastrum triceps</i> B.	... ..	... ..	... ..
5	$\frac{43\frac{1}{4}}{74\frac{1}{2}}$	<i>Euodia gilla</i> B			
6	$\frac{38\frac{1}{2}}{68\frac{1}{2}}$	<i>Lithomelissa? parva</i> B			
7	$\frac{37\frac{2}{3}}{74}$	<i>Triacanthum</i> <i>Tarus</i> etc			

Y' No. 617

Position 17 300 Fathoms

- | | | | |
|--------|-----------------------------------|---|----------------------------------|
| No. 1. | 57
76 1/2 | <i>Stylodictya p. l. genalis</i> B. | |
| 2 | 56
77 1/4 | <i>Cornulella clathrata</i> B. profunda | |
| 3 | 53 1/2
65 | <i>Halimma circumlaevus</i> B. | variety with few rays |
| 4 | 53 1/2
68 2/3 | <i>Campylodiscus vagans</i> B. | |
| 5 | 50
65 | <i>Halimma opposita</i> B. | |
| 6 | 47 1/8
66 3/4 | <i>Triceratium eelzerum</i> B. | broken |
| 7 | 44
64 2/3 | <i>Histiastrum triceps</i> | with cloud var. |
| 8 | 45 1/2
26 1/8 (right hand bin) | <i>Triceratium Fovus</i> | Three specimens - of diff. sizes |
| 9 | " | <i>Achinophychus</i> | large one broken |

No. 618

Section 17 300 fathoms

No. 1	$\frac{68}{65\frac{1}{4}}$	<i>Schizophychus</i>	with air
2	$\frac{65\frac{1}{4}}{68\frac{3}{4}}$	<i>Lucyridium acuminatum?</i>	
3	$\frac{65\frac{1}{8}}{76\frac{2}{3}}$	—	probably a Spongiolite
4	$\frac{65}{30}$	<i>Leucinodiscus pulchellus</i> Br.	good one
5	$\frac{63\frac{1}{2}}{66}$	<i>Seychnocarium trifenestratum</i> Br.	broken
6	$\frac{61\frac{1}{2}}{71\frac{1}{4}}$	<i>Podocypus Aegleus</i> Br.	
7	$\frac{59}{65\frac{1}{2}}$	<i>Diplospyris cancellatus</i> Br.	good one
8	"	<i>Halomma valida</i> Br.	on NW margin of some field
9	$\frac{59}{23}$	<i>Halomma</i> "	
10	$\frac{58}{24\frac{1}{4}}$	<i>Halastrium</i>	
11	$\frac{58}{27\frac{1}{2}}$	<i>Orthopalum spinosum</i> Br.	
12	$\frac{57\frac{1}{2}}{80\frac{1}{4}}$	<i>Halomma aspera</i> Br.	
13	$\frac{51}{82\frac{1}{2}}$	(too imperfect to name)	curious fragment of a <i>Polycistina</i> .
14	$\frac{48}{75}$	<i>Littorina phreodolozica</i> Br.	

A'' No. 619

Sgt. P. F. Sands - Gulf Stream - Sec VIII - No 14 - Depth 400 Fathoms Lat 33° 32' Long. 76° 10' 15"

- | | | | |
|------|---------------------------------------|------------------------------------|-----------|
| No 1 | $\frac{58}{77\frac{3}{4}}$ | <i>Auliscus pruinosus</i> B. | small one |
| 2 | $\frac{57\frac{1}{2}}{65\frac{1}{4}}$ | <i>Orthochopalum spongiosum</i> B. | |
| 3 | $\frac{24\frac{3}{4}}{80\frac{1}{8}}$ | <i>Rhactoceros falcatum</i> B. | horn |
| 4 | $\frac{50\frac{1}{2}}{70}$ | <i>Leucyrtidium turgidulum</i> | |
| 5 | $\frac{46}{66\frac{1}{4}}$ | <i>Thalassium triiceps</i> B. | |
| 6 | $\frac{44\frac{1}{4}}{63\frac{1}{2}}$ | <i>Thalassium amplum</i> B. | |
| 7 | $\frac{40}{72\frac{1}{2}}$ | <i>Thalassium affine</i> B. | |

B¹¹ No. 626

Gulf Stream Sect VIII No 14 400 Fathoms

- No. 1 - $\frac{52\frac{1}{3}}{76\frac{1}{8}}$ Eupodiscus radiatus B.
- 2 - $\frac{44}{22\frac{1}{2}}$ Hydrodictya concentrica
- 3 - $\frac{41}{64\frac{1}{2}}$ - - - - - stellate spines apical with furcate spines
- 4 - $\frac{34}{50\frac{1}{2}}$ - Halicarya erosa B. - - - - - oblique view
- 5 - $\frac{35}{66\frac{1}{4}}$ - Eucyrtidium compressum B.
- 6 - $\frac{32+}{63\frac{1}{4}}$ - Actinoplychus - - - - - 8 rays

C¹¹ No. 62.1

Gulf Stream Sec VIII No 14, 400 Fathoms

- | | | | |
|-------|---------------------------------------|---|--------------------------------|
| | $\frac{52\frac{1}{2}}{7\frac{1}{8}}$ | <i>Spongodiscus radiatus</i> B. | } error. Merriell's & Shide B. |
| | $\frac{44}{22\frac{1}{2}}$ | <i>Phytodictya concentrica</i> Os. | |
| | $\frac{41}{64\frac{1}{2}}$ | | |
| No 1. | $\frac{66}{80\frac{1}{4}}$ | <i>Comatella clatrata</i> B. profunda | |
| 2 | $\frac{62\frac{1}{4}}{65\frac{1}{8}}$ | <i>Anophora</i> | |
| 3 | $\frac{64}{68\frac{1}{4}}$ | ----- | spongy, pink |
| 4 | $\frac{60\frac{1}{2}}{25}$ | <i>Eucyrtidium simplex</i> B. | |
| 5 | $\frac{57\frac{1}{4}}{26\frac{1}{4}}$ | <i>Urosalpinx spinosum</i> | |
| 6 | $\frac{57+}{65\frac{1}{4}}$ | <i>Eucyrtidium</i> ----- | two imperfect, to characterize |
| 7 | $\frac{57}{24}$ | <i>Scorpanium Fraum</i> | |
| 8 | $\frac{51}{79}$ | <i>Eucyrtidium turgidulum</i> B. | |
| 9 | $\frac{48\frac{2}{3}}{18\frac{1}{2}}$ | <i>Amphipentis ornata</i> --- | |
| 10 | $\frac{48\frac{1}{2}}{5\frac{1}{2}}$ | <i>Comatella clatrata</i> B. profunda etc. | |
| 11 | $\frac{45\frac{7}{8}}{61\frac{1}{4}}$ | <i>Spongodiscus</i> ? .. <i>obscurus</i> .. B | .. to suspect it |
| 12 | $\frac{39}{75\frac{1}{4}}$ | <i>Diakus pinnatus</i> B. | --- good one |

D^o No. 652

Gulf of Mexico! No. VIII No. 8... 138 fathoms

Light. patches in natural state

- No. 1. $\frac{68}{83\frac{1}{2}}$ *Eucyrtidium simplex* B.
- 2 $\frac{67\frac{1}{2}}{81\frac{1}{2}}$ *Comulella clathrata* β profunda
- 3 $\frac{59\frac{1}{2}}{67}$ *Lithopora?* parva B.
- 4 $\frac{59\frac{1}{2}}{26\frac{2}{3}}$ *Synapta* , calcareous plate of,
- 5 $\frac{43}{30}$ *Asteromphalus* in clear space, surrounded, sediment
- 6 42 long cell of a *Polythalamium* shell
- 7 $\frac{41}{66\frac{1}{2}}$ *Hydrodictya concentrica* B small one
- 8 $\frac{41\frac{1}{2}}{14}$ *Comulella Fissella?* B.
- 9 $\frac{33}{66\frac{1}{2}}$ *Hydrodictya irregularis* B.

E" No. 623

Gulf Stream! See VIII. No. 3. 105 fathoms. Lat 24° 33'.
Long 80° 43'

(treated with cold Chloro-hydroic acid)

- | | | | |
|--------|---|---------------|--------------------------|
| No. 1. | $\frac{56}{2}$ | Bacteriasium | |
| 2. | $\frac{63}{2 \frac{5}{8}}$ | Asteromphalus | |
| 3. | $\frac{60 \frac{3}{4}}{80 \frac{1}{4}}$ | Histiastrium | triceps B. grad. me |
| 4. | $\frac{60 \frac{3}{4}}{80 \frac{3}{4}}$ | Spongodiscus | krux B. |
| 5. | $\frac{56}{67}$ | Histiastrium | triceps? B. |
| 6. | $\frac{50}{64 \frac{1}{2}}$ | Stylodictya | concentrica B. |
| 7. | $\frac{59}{62 \frac{1}{4}}$ | Acropora? | a fragment undetermined |
| 8. | $\frac{38}{64 \frac{1}{4}}$ | Bacteriasium | |
| 9. | $\frac{38}{71 \frac{1}{4}}$ | Halimona | vabida? B. |
| 10. | $\frac{32 \frac{1}{8}}{78 \frac{3}{4}}$ | Bacteriasium | |

F¹¹ No. 624

Gulf Stream Sect. VIII No. 11. 510 Fathoms

Light fishes in natural state

- | | | | | | |
|------|---------------------------------------|--------------------|-----------------|--------------|-----------------|
| No 1 | $\frac{56\frac{1}{2}}{61\frac{1}{2}}$ | <i>Healimma</i> | <i>Lymnaea</i> | B. | |
| 2. | $\frac{47\frac{1}{4}}{80}$ | <i>Sponydiscus</i> | <i>obscurus</i> | B. | |
| 3. | $\frac{45\frac{7}{8}}{81}$ | <i>Dieterichia</i> | <i>?</i> | <i>altus</i> | B. ... esp. new |

NO. 625 P.C.C. 1/24/1916

G¹¹

Gulf of Mexico, Sect VIII. No 8 138 Fathoms

Light fishes in natural state

- | | | | | |
|------|---------------------------------------|----------------------|----------------|----|
| No 1 | $\frac{64}{76}$ | <i>Lithothauma</i> | <i>obscura</i> | B. |
| 2 | $\frac{54\frac{7}{8}}{72\frac{1}{2}}$ | <i>Asteromphalus</i> | | |
| 3 | $\frac{57}{85}$ | <i>Sponydiscus</i> | <i>Cruz</i> | B. |

Gulf of Mexico. Sec VIII No 8 138 Fathoms Lat 26° 20' Long 84° 41'

acted on by cold Chloro-hydric acid, and then by ^{my} chlorate process

No 1	$\frac{66\frac{1}{2}}{72\frac{3}{4}}$	<i>Halicalyptera Nitens</i> B.	
2	$\frac{65\frac{3}{4}}{64\frac{3}{4}}$	<i>Eucyrtidium elongatum</i> B.	
3	$\frac{63}{78}$	<i>Litholobys setigera</i> B.	
4	$\frac{61\frac{1}{4}}{80\frac{1}{8}}$	<i>Histiastrium lamella</i> B.	fine one
5	$\frac{60\frac{3}{4}}{69\frac{3}{4}}$	<i>Euodia gilba</i> B.	
6	$\frac{61}{67}$	<i>Coenocitta clathrata</i> Ehr	2 varieties in same field
7	$\frac{60\frac{3}{4}}{65\frac{1}{2}}$	<i>Spongodiscus centralis</i> B.	
8	$\frac{59\frac{1}{4}}{72}$	<i>Calicarya duplex</i> B	with outer envelope, curious
9	$\frac{59\frac{1}{8}}{64\frac{3}{4}}$	<i>Eucyrtidium conicum</i> B.	
10	$\frac{59\frac{1}{8}}{77\frac{3}{4}}$	<i>Halimma Dityopyris</i> cordata? B.	broken
11	$\frac{59}{85\frac{2}{3}}$	<i>Coenocitta Neptunis</i> B.	
12	$\frac{58\frac{1}{4}}{80\frac{1}{4}}$	<i>Litholobys? prostrata</i> B.	
13	$\frac{56\frac{1}{2}}{72\frac{1}{8}}$	<i>Podocryptis Azules</i> Ehr	
14	$\frac{55}{72\frac{3}{4}}$	<i>Hydrodictya concentrica</i> B.	
15	$\frac{55\frac{1}{2}}{64\frac{1}{4}}$	<i>Pterocodon stolonum</i> B.	
16	"		undetermined
17	$\frac{54}{77\frac{1}{8}}$	<i>Pterocodon? tenuis</i> B.	
18	$\frac{52\frac{3}{4}}{28}$	<i>Spongodiscus Cruce</i> B.	
19	$\frac{51\frac{1}{2}}{74\frac{1}{4}}$	<i>Halioarthrum amplum</i> B.	middle portion only
20	$\frac{50\frac{1}{4}}{72\frac{1}{4}}$	<i>Hydrodictya concentrica</i> B.	fine one
21	$\frac{49\frac{7}{8}}{72\frac{3}{4}}$	<i>Litholobys prominens</i> B.	
22	$\frac{49}{74}$	<i>Podocryptis decurrens</i> B.	
23	$\frac{50}{60}$	<i>Litholobys prominens</i> B.	
24	$\frac{50}{64\frac{1}{2}}$	<i>Halimma Panopaea</i>	small
25	$\frac{46\frac{7}{8}}{70\frac{1}{4}}$	<i>Halioarthrum amplum</i> B.	good one
26	$\frac{43}{67}$	<i>Sphaeroceros falcatum</i> B.	
27	$\frac{42}{63}$	<i>Euodia gilba</i> B.	
28	$\frac{40}{67}$	<i>Halimma valida</i> B.	
29	$\frac{39}{25\frac{1}{8}}$	<i>Eucyrtidium compressum?</i> B.	
30	$\frac{38}{74}$	<i>Podocryptis decurrens</i> B.	
31	$\frac{34}{64\frac{1}{4}}$	<i>Histiastrium triceps</i> B.	
32	$\frac{54\frac{3}{4}}{79}$	<i>Halicalyptera?</i> ?	bit of net work with beads
33	$\frac{33}{70\frac{3}{4}}$	<i>Halioarthrum complexum</i> B.	good one

No. 1	$\frac{67\frac{1}{4}}{74}$	<i>Eucypridium</i> ^{impudens} impudens B.	a fragment
2	$\frac{63}{78}$	<i>Ladium</i> ^{K α 510} max <i>marinum</i> B. <small>= a small cake or crust</small>	Small oval body with lines.
3	$\frac{59}{87\frac{1}{4}}$	<i>Podocypus</i> <i>Seyle</i> Ehr	broken
4	$\frac{58}{77\frac{1}{4}}$	<i>Halicalypta</i> <i>Selas</i> B	fragment of a large one
5	$\frac{57}{75\frac{1}{4}}$	<i>Citho</i> <i>supalum</i> <i>spinosum</i> B	
6	$\frac{55\frac{1}{4}}{78}$	<i>Eucypridium</i> <i>curvatum</i> ? Ehr	rather axial lines
7	$\frac{55}{74\frac{1}{2}}$	<i>Podocypus</i> <i>decurvus</i> B.	
8	$\frac{54\frac{1}{4}}{63\frac{1}{4}}$	<i>Navicula</i> <i>cristata</i> Ehr.	
9	$\frac{50}{76}$	<i>Spongodiscus</i> <i>Crux</i> B	
10	$\frac{45\frac{1}{4}}{83\frac{1}{4}}$	<i>Chaetoceros</i> <i>porrectum</i> B <small>(stretched out)</small>	with retroverted horns
11	$\frac{42\frac{1}{4}}{64\frac{1}{3}}$	<i>Halicalypta</i> <i>placidula</i> B	fragment of a ring
12	$\frac{41}{73\frac{1}{2}}$	<i>Carporanium</i> <i>Fraxum</i>	
13	$\frac{39}{69\frac{3}{4}}$	"	new like 12
14	$\frac{33\frac{3}{4}}{75\frac{1}{2}}$	<i>Halimma</i> <i>valida</i> B.	
15	$\frac{26}{76\frac{1}{4}}$	<i>Asterolampra</i>	two valves overlapping, Green a coarse net work { and S-W of a straight rod
16	$\frac{54\frac{7}{8}}{77\frac{1}{3}}$	<i>Asteromphalus</i>	with zig-zag rays, { close to W end of a dark spot and S-E of a Spongo discus
17	$\frac{59}{80}$	<i>Rhizosolenia</i> <i>triquetra</i> B.	two specimens
18	$\frac{49\frac{3}{4}}{84\frac{3}{4}}$	<i>Asterolampra</i>	two valves overlapping N.E. of a lot of lamplack
19	$\frac{48}{62\frac{1}{4}}$	<i>Asteromphalus</i>	five one, touching a small brown spot,

Gulf of Mexico. Sec. VIII No 8, 138 Fathoms

- | | | | |
|------|--|---|--|
| No 1 | $\frac{45^+}{68^-}$ | Bacteriostrom | |
| 2 | $\frac{44}{76^+}$ | Eucyrtidium Tritonis B. | |
| 3 | $\frac{64}{28\frac{3}{4}}$ | Loxostoma setigera B. | good one |
| 4 | $\frac{62}{66\frac{1}{4}}$ | Halicyra rotunda B. | |
| 5 | $\frac{57\frac{7}{8}}{61}$ | Halicypta splendida B. | fragment of mealy floor mass |
| 6 | $\frac{58}{76\frac{3}{4}}$ | Chaetoceros falcatum B. | |
| 7 | $\frac{57}{64\frac{1}{2}}$, $\frac{51\frac{1}{2}}{64\frac{1}{2}}$ | Rhizosolenia triquetra B. | |
| 8 | $\frac{58}{25\frac{1}{4}}$ | Halicypta Petrus B. | broken |
| 9 | $\frac{57}{29\frac{3}{4}}$ | Halistropha contorta B.
(δρρδρρ = line, term)
isolating | with spiral arrangement, curious |
| 10 | $\frac{56}{62\frac{3}{4}}$ | Heterostrium rotunda B. | |
| 11 | $\frac{54\frac{1}{4}}{22\frac{1}{4}}$ | Asteromphalus | N. of a bunch black specks |
| 12 | $\frac{54}{84\frac{1}{4}}$ | Halicypta? ^{hexagonalis} contorta ^{contorta} B.
Stenodictyon Petrus B. a fragment | See U. 51/83 |
| 13 | $\frac{52\frac{7}{8}}{79}$ | Asteromphalus | S of a brown dot |
| 14 | $\frac{53}{65}$ | Asterolampra! | N.E. of a bit of lamprill |
| 15 | $\frac{53}{82}$ | Asterolampra | broken, just N. of " " |
| 16 | $\frac{52\frac{1}{8}}{23\frac{1}{4}}$ | Eucyrtidium acutum? B. | within the lines in water of 12. |
| 17 | $\frac{50\frac{1}{2}}{74}$ | | Punctate plate with irregular outline |
| 18 | $\frac{50\frac{3}{4}}{77\frac{1}{4}}$ | | East of cell of Trichilaria? |
| 19 | $\frac{46\frac{3}{4}}{64\frac{1}{2}}$ | Styroditya polygonalis? B. | with long spines |
| 20 | $\frac{44\frac{1}{2}}{30^+}$ | Plectospyris cancellatus B. | see U. 35/65 |
| 21 | $\frac{32\frac{1}{2}}{60\frac{3}{4}}$ | Halicypta? fragilis B. | |
| 22 | $\frac{43\frac{1}{2}}{78\frac{3}{4}}$ | Asteromphalus | central portion, N.E. of a bit of lamprill
E of a separate fragment |


- No 1 $\frac{65}{62\frac{7}{8}}$ *Dactycephala ramosa* ? B curious net work
- 2 $\frac{67}{22\frac{7}{8}}$ " " " "
- 3 $\frac{57\frac{1}{4}}{73\frac{1}{8}}$ " " " " several pieces?
- 4 $\frac{68}{71\frac{1}{8}}$ *Bacterastrum*
- 5 $\frac{62\frac{7}{8}}{75\frac{1}{4}}$ *Sphaeroceros* ? *tetrachaeta* ? etc. small - W of a yellowish filament and close to a black spot
- 6 $\frac{65}{75}$ *Asterolampira* fine one
- 7 $\frac{62}{21\frac{7}{8}}$ *Eucyrtidium acutum* ? etc
- 8 $\frac{57\frac{1}{8}}{62\frac{1}{4}}$ *Halimma circumlucens* B
- 9 $\frac{56}{68\frac{7}{8}}$ *Podocorytes decurrens* B *Allyne new*
- 10 $\frac{55}{65\frac{1}{2}}$ *Hydrodictya* : *irregularis* B.
- 11 $\frac{54\frac{1}{2}}{28\frac{1}{2}}$ *Halicyra quadriforis* B.
- 12 $\frac{53\frac{3}{4}}{23\frac{7}{8}}$ *Euodia gibba* B.
- 13 $\frac{57}{62\frac{1}{2}}$ *Asterolampira*

L^o No. 630

Gulf of Mexico See VIII: No 8 138 Fathoms

- | | | |
|------|---------------------------------------|--|
| No 1 | $\frac{68\frac{1}{4}}{21\frac{1}{4}}$ | <i>Halicalyptus Pelasus</i> B. very fine. one. |
| 2 | $\frac{68}{65}$ | <i>Chaetoceros?</i> <i>tetrachaeta?</i> Th. one fine broken. |
| 3 | $\frac{66\frac{1}{8}}{75\frac{1}{4}}$ | <i>Rhodospira</i> ^{vulgata?} <i>Couperi?</i> ... algae new ... new! |
| 4 | $\frac{65}{67\frac{1}{2}}$ | <i>Chaetoceros</i> <i>porrectum?</i> B. new? ... algae new, bearing a lot of lampbrush |
| 5 | $\frac{44}{21}$ | <i>Halimnema</i> <i>opposita</i> B. |
| 6 | $\frac{33\frac{3}{4}}{60}$ | <i>Actiniscus?</i> <i>Pentasteris?</i> Th. a common form |

Gulf of Mexico, Sec VIII No 8. 138 Fathoms

No 1	$\frac{61}{60\frac{7}{8}}$	<i>Asteromphalus</i>	partly obscured	
2	$\frac{59}{79}$	<i>Heliumma</i>	undetermined	large one broken, nucleus and rays gone
3	$\frac{56\frac{1}{3}}{61}$	<i>Locinodiscus ? lineatus</i>	deformed	obovate
4	$\frac{56\frac{1}{4}}{76}$	<i>Asterolampra</i>		broken N of a blue fibre
5	$\frac{55\frac{1}{4}}{71\frac{3}{4}}$	<i>Cornuletta obliqua</i> B		oblique view
6	$\frac{55\frac{1}{3}}{26\frac{3}{4}}$	<i>Strombularia musica ?</i> B	small	
7	$\frac{54}{77\frac{1}{2}}$	<i>Schizotha stipitata</i> Springer B.		
8	$\frac{52\frac{3}{4}}{80\frac{2}{3}}$	<i>Sphaeroceros porostoma</i> B.		
9	$\frac{52\frac{1}{8}}{69}$	<i>Gyalodiscus radiatus</i>		large one
10	$\frac{52\frac{1}{2}}{72\frac{7}{8}}$	<i>Sphaeroceros tetrachaeta ?</i> B.		just above inters. column of two threads
11	$\frac{46}{79}$	<i>Trochilaster</i>		cast of cells
12	$\frac{46}{67\frac{1}{8}}$	<i>Coryphidium</i>		
13	$\frac{45}{85\frac{1}{2}}$	<i>Ceratopryis parva</i> B.		see C $\frac{54}{78\frac{3}{4}}$
14	$\frac{44}{61\frac{1}{4}}$	" "		oblique
15	$\frac{54\frac{1}{8}}{78}$	<i>Asterolampra</i>		SE of Y and near a rough granule

N^o 632

Gulf of Mexico Sec VIII No 8 138 Fathoms

No 1	58 ² / ₃ 29 ¹ / ₂	<i>Hyalodiscus quadratus</i> B.	
2	41 61 ¹ / ₄	<i>Amphipentax ornatus</i> Muller	
3	48 72	<i>Asteriaster</i>	fine one, looking a long head. notice the white plate behind it
4	45 62 ³ / ₄	<i>Diplospyris cancellatus</i> B.	good one
5	40 ¹ / ₄ 84	<i>Spongodiscus loricatus</i> B.	

0'' No. 633

Gulf of Mexico - Sect VIII. No. 8. 138. F. Almon, last five portions

- No 1. $\frac{61\frac{1}{4}}{80\frac{1}{2}}$ Asteromphalus
2. $\frac{56\frac{1}{4}}{81}$ Eucyrtidium longicirrus? fragment
3. $\frac{56\frac{1}{8}}{77\frac{1}{2}}$ Asterolamprea S of a black spot
4. $\frac{42}{68\frac{3}{4}}$ undeterminable, fragment of an oval punctate plate of a Diatom

P¹¹ No. 634

Gulf of Mexico - Sec. VIII No 8 - 138.7 fathoms

No 1	$\frac{42\frac{3}{4}}{28\frac{1}{2}}$	undetermined
2	$\frac{44}{35\frac{7}{8}}$	<i>Schistodius prominens</i> B.
3	$\frac{57\frac{1}{2}}{30\frac{2}{3}}$	<i>Asteromphalus</i> - touching one end of a long spical
4	$\frac{54\frac{7}{8}}{18\frac{1}{8}}$	<i>Hyndra</i> - side view
5	$\frac{54}{22\frac{3}{4}}$	<i>Chaetoceros porrectum</i> ? B. - fragment of the horns with lateral setae

Q" No. 635



East light plate

Gulf of Mexico Sect VIII No. 8, 138 Fathoms

No 1	$\frac{65\frac{1}{8}}{21\frac{1}{8}}$	<i>Halimys quadriforis</i> B.	-----	good one
2	$\frac{58\frac{1}{4}}{76\frac{3}{4}}$	<i>Asteronphalus</i>	lithen	48 " 2 black spots 58 " 2 brown "
3	$\frac{41\frac{1}{8}}{24\frac{1}{8}}$	<i>Histiogaster princeps</i>	-----	good one
4	$\frac{35\frac{1}{4}}{29}$	<i>Halimarthrum</i> complexum	-----	
5	$\frac{44\frac{1}{4}}{76\frac{1}{2}}$	<i>Chaetoceros? tetracheta?</i> Wa	W	E of an <i>Actinocyclus</i>

R¹¹ No. 636

Gulf of Mexico. Sec. VIII No. 8. 138 Fathoms. . . . (last light portion. . . .)

- | | | | |
|------|---------------------------------------|---|---|
| No 1 | $\frac{55\frac{1}{4}}{82}$ | <i>Lithopea cancellata</i> B | |
| 2 | $\frac{48\frac{3}{4}}{68\frac{1}{4}}$ | <i>Chaetoceros porrectum</i> B | with recurved horns |
| 3 | $\frac{62\frac{1}{4}}{65\frac{1}{4}}$ | <i>Asterolampra</i> | 2 valves overlapping, E of 2 specks . . . |
| 4 | $\frac{62}{40}$ | <i>Chaetoceros? porrectum</i> <i>tetrachata</i> Ehr | with 4 setae, touching a bit of <i>Synedra</i> |
| 5 | $\frac{60\frac{1}{4}}{74}$ | <i>Lithobolus prominens</i> B. | |
| 6 | " | <i>Actinocyclus Pentastereus</i> Ehr. | |
| 7 | $\frac{50}{23}$ | <i>Synedra</i> | basal view |
| 8 | $\frac{38}{62\frac{1}{2}}$ | <i>Asterolampra</i> | S of the point of a black mass  |
| 9 | $\frac{38\frac{1}{2}}{67}$ | <i>Asterolampra</i> | SE of 3 dark specks & W of a round grey mass.  |

S¹¹ No. 637

715 Fath

39° 35' N.

71° 26' W.

$\frac{49\frac{1}{4}}{29\frac{3}{4}}$

Eucyrtidium

S¹¹ No. 638

715 Fath

39° 35' N.

70° 06' W.

$\frac{47}{70\frac{3}{4}}$

Sanutella clathrata (3 specimens)

~~X~~" U" No. 639

715 Fath 39° 55' N 70° 06' W

Disc like *Euprodia* but without feet.

$55\frac{1}{2}$

80

V" No. 640 [640A Dredge 9/1917]

715 Fath same as above.

~~57~~
57
~~56~~
56

21

~~Eucyrtidium~~

~~Flustrella~~

new?

} belong to W"

11/11

No 640

[Glasgow Review] 9/10/47

52/4
67
20
21

Eucyrtidium

Flustrella

no.?

211

11/18

2''

Slide A.A. No. 641

1200 Fathoms

No 1	$\frac{58\frac{1}{2}}{74}$		
2	$\frac{58\frac{1}{4}}{75\frac{1}{4}}$		fragment with large meshes
3	$\frac{58}{77\frac{1}{2}}$	<i>Eucyrtidium</i>	large meshes good one
4	$\frac{57\frac{1}{4}}{74\frac{1}{8}}$		fragment
5	$\frac{55\frac{3}{4}}{68}$	<i>Loscinodiscus</i>	good one
6	$\frac{54}{78\frac{1}{4}}$	<i>Sponyodiscus</i>	" "
7	$\frac{53\frac{3}{4}}{82}$	<i>Eucyrtidium</i>	good one
8	$\frac{53\frac{1}{2}}{70}$, $\frac{66\frac{1}{8}}{64\frac{1}{2}}$, $\frac{39}{30}$		Small acid body
9	$\frac{51\frac{1}{4}}{28}$	<i>Eucyrtidium Tritonis B.</i>	
10	$\frac{50}{28}$	"	large meshes
11	$\frac{47\frac{3}{4}}{84}$	<i>Cornulella clathrata B. profunda</i>	
12	$\frac{48\frac{1}{8}}{29\frac{1}{4}}$	<i>Eucyrtidium</i>	
13	$\frac{48}{60\frac{3}{4}}$		
14	$\frac{46}{31\frac{1}{3}}$	<i>Loscinodiscus</i>	large one
15	$\frac{39}{62\frac{2}{3}}$	<i>Eucyrtidium</i>	with contracted base
16	$\frac{43\frac{1}{2}}{81\frac{1}{3}}$	<i>Siphonotrypa</i>	
17	$\frac{41\frac{1}{8}}{75\frac{3}{4}}$	<i>Eucyrtidium</i>	
18	$\frac{34\frac{1}{4}}{29\frac{3}{4}}$		
19	"	<i>Halimma</i>	
20	$\frac{70\frac{1}{4}}{71\frac{1}{8}}$	<i>Cornulella Atlantica B.</i>	
21	$\frac{70\frac{1}{8}}{63\frac{1}{4}}$	<i>Eucyrtidium</i>	
22	$\frac{69\frac{1}{4}}{65}$	<i>Halimma</i>	
23	$\frac{68}{76\frac{2}{3}}$	<i>Cornulella</i>	good one
24	$\frac{64}{79\frac{7}{8}}$		
25	$\frac{68\frac{3}{4}}{80\frac{1}{8}}$	<i>Eucyrtidium</i>	
26	$\frac{66\frac{1}{4}}{80}$	"	
27	$\frac{67}{72}$	<i>Euodia gibba B.</i>	touching a <i>Loscinodiscus</i>
28	$\frac{66}{62\frac{2}{3}}$		fragment
29	$\frac{66\frac{1}{2}}{67\frac{1}{2}}$	<i>Loscinodiscus</i>	
30	$\frac{63}{75}$		
31	$\frac{64}{65\frac{2}{3}}$	<i>Siphonotrypa?</i>	
32	$\frac{62\frac{1}{8}}{65}$		

continued on next page

Slide A A' continued from last page

1200 fathoms

no 33	$\frac{62}{65}$	D	fragment
34	"	<i>Euardia zitta</i>	V. B. the <i>Sunirella</i> near this was accidentally introduced and does not belong to these soundings
35	$\frac{61\frac{1}{2}}{72\frac{3}{4}}$	<i>Podocypis?</i>	
36	$\frac{61\frac{1}{2}}{78\frac{1}{2}}$	<i>Podocypis</i>	
37	$\frac{60\frac{1}{8}}{71\frac{1}{2}}$	<i>Leoscimodiscus</i>	
38	"	<i>Dictyocha</i>	with long spines, - just above the last
39	$\frac{60\frac{1}{2}}{74\frac{7}{8}}$	<i>Hebicalyptra Pelaeus B.</i>	fragment of margin
40	$\frac{58\frac{1}{2}}{60}$		

· · B'B' No. 642

2000 Fathoms 54° 17' N 22° 33' W

No 1 $\frac{72\frac{1}{4}}{71\frac{3}{4}}$ *Scordia gitta* B.

2 $\frac{67\frac{3}{4}}{74\frac{3}{4}}$

Myxochela with *Sping* head, Mr. B. R. Salisbelle near it, does not belong to this group, but was introduced accidentally.

3 $\frac{65}{64\frac{1}{8}}$

Cornulella *sericea* fine specimen

4 "

5 $\frac{62\frac{1}{4}}{72\frac{1}{2}}$

6 $\frac{60}{29}$ *Coccinodiscus*

7 $\frac{60\frac{1}{8}}{62}$

8 $\frac{49\frac{1}{2}}{62\frac{1}{4}}$ *Eucyrtidium*

9 $\frac{41\frac{3}{4}}{24\frac{1}{2}}$ *Coccinodiscus*

10 $\frac{38\frac{1}{2}}{27\frac{1}{4}}$ *Eucyrtidium*


11 $\frac{31\frac{1}{2}}{23}$

C'L' No. 643

1200 Fathoms

- | | | | |
|---|---------------------------------------|---|------------------------------------|
| 1 | $\frac{57\frac{1}{2}}{75\frac{1}{2}}$ | <i>Bactracium</i> | touching the upper end of a thread |
| 2 | $\frac{57}{87}$ | <i>Eucyrtidium?</i> | |
| 3 | $\frac{57\frac{3}{4}}{72\frac{1}{2}}$ | <i>Coscinodiscus</i> | |
| 4 | $\frac{56\frac{3}{4}}{54}$ | <i>Hydractya</i> : <i>regularis</i> Os. | |
| 5 | $\frac{53\frac{3}{4}}{90}$ | <i>Spongodiscus</i> | |
| 6 | $\frac{41}{51\frac{1}{2}}$ | sp | small fragment |

D'D' 1200 Fathoms No. 644

- | | | | |
|----|------------------------------|---|--|
| 1 | $\frac{64^+}{75}$ | <i>Coronulla Atlanticia</i> B | |
| 2 | " | <i>Achiniscus</i> | S.W. of preceding |
| 3 | $\frac{58^-}{69\frac{1}{2}}$ | | |
| 4 | $\frac{53\frac{1}{4}}{63}$ | <i>Eucyrtidium</i> | |
| 5 | $\frac{53}{74\frac{1}{2}}$ | " | |
| 6 | " | <i>Leptodryas</i> | |
| 7 | " |  | near upper end of the <i>Eucyrtidium</i> |
| 8 | $\frac{51}{63}$ | <i>Spongodiscus</i> | good one |
| 9 | $\frac{43}{21\frac{1}{2}}$ | <i>Coronulla clarkii</i> B. profunda | |
| 10 | $\frac{40^-}{28}$ | <i>Coscinodiscus</i> | |

E' E' No 645

2000 Fathoms 54° 17' N 22° 33' W

N.B. Some fresh water forms on Nos slides were accidentally introduced with the lagoon

- | | | | |
|-------|---------------------------------------|---|---|
| No. 1 | $\frac{65\frac{1}{4}}{69}$ | <i>Aclisodiscus</i> | in line with 2 brown dots |
| 2 | $\frac{65\frac{3}{4}}{69\frac{1}{4}}$ | <i>Loricodiscus</i> | |
| 3 | $\frac{64\frac{1}{4}}{68\frac{2}{3}}$ | <i>Eucyrtidium</i> | |
| 4 | $\frac{64}{74\frac{3}{4}}$ | | |
| 5 | $\frac{62\frac{1}{2}}{65\frac{1}{2}}$ | <i>Eucyrtidium gibba</i> | in N.E. |
| 6 | " | <i>Loricodiscus</i> | just below |
| 7 | " | <i>Eucyrtidium</i> | in S.E. |
| 8 | " | <i>Podocorytho?</i> | in SW a fragment |
| 9 | $\frac{63\frac{1}{4}}{77\frac{1}{4}}$ | <i>Loricodiscus excentricus</i> | |
| 10 | $\frac{55\frac{1}{8}}{78\frac{3}{4}}$ | <i>Spongodiscus</i> | |
| 11 | $\frac{53}{72\frac{1}{4}}$ | | |
| 12 | $\frac{52}{69}$ | <i>Loricodiscus</i> | |
| 13 | $\frac{52}{71\frac{1}{2}}$ | <i>Lithopora?</i> | Three specimens |
| 14 | $\frac{52}{77\frac{1}{2}}$ | <i>Bacteriastrium</i> | ? |
| 15 | $\frac{50}{75\frac{1}{4}}$ | <i>Leontella?</i> | top view |
| 16 | " | <i>Eucyrtidium</i> | |
| 17 | $\frac{47\frac{1}{4}}{73\frac{1}{2}}$ | | |
| 18 | $\frac{46\frac{1}{2}}{75\frac{1}{8}}$ | <i>Spongodiscus</i> | N.B. The Loricella after slide, case G is ^{present} accidentally |
| 19 | $\frac{45\frac{3}{4}}{71\frac{1}{4}}$ | | fragment |
| 20 | $\frac{43\frac{3}{4}}{64\frac{1}{2}}$ | " | small Polysiten. |
| 21 | $\frac{43\frac{7}{8}}{66\frac{7}{8}}$ | <i>Leontella Atlantica</i> B. <i>annulata</i> | |
| 22 | $\frac{40\frac{1}{4}}{77\frac{1}{8}}$ | " | " |
| 23 | $\frac{31}{63\frac{1}{4}}$ | <i>Peristophania?</i> | |

F.F. No 646

2000 Fathoms

54° 17'

-2° 33'

$\frac{50}{63}$

Halimma

fragment or rept of above

GG' No 647

1360. Fathoms 44° 41' N 24° 35' W

Some fragments of Schizanthus... on this slide, got in with the Balsam...

No 1	59 80 3/4	Halimma	
2	56 1/4 74 7/8	Eucyrtidium	
3	56 1/4 74	Schiniscus	seen sideways
4	56 1/4 71 2/3	Eucyrtidium	
5	"	Halimma	a fragment
6	56 76 1/4	"	a nucleus?
7	54 1/4 86 1/4	Halimma dryophos? Ehr.	
8	"		Small Polyistia SE of above?
9	53 3/4 77 1/4		several spines
10	53 1/4 71 1/4	Histiastrium Lambda? B	fragment
11	53 1/4 79	Cornulella clathrata	B. propinqua Ehr.
12	50 1/4 75	Carpocanium?	
13	50 1/4 65		
14	48 70 2/3	Podocorythis	fragment
15	46 1/2 76 1/2		straight spines, end
16	45 1/4 75 2/3		
17	44 1/2 69 2/3	"	"
18	40 1/2 82	Halimma	

January 24, 1852

H' H' 2700 Fath. No. 648

2700 Fathms. Lat. 54° 46' N Long. 168° 18' E Sea of Kamtschatka

- | | | |
|---|---------------------------------------|--|
| 1 | $\frac{65}{62\frac{3}{4}}$ | <i>Asteromphalus Brookei</i> B. obscured SW of 1/2 a <i>Coscinodiscus</i> |
| 2 | $\frac{57\frac{1}{2}}{64\frac{1}{2}}$ | " " whole one seen obliquely |
| 3 | $\frac{59\frac{1}{2}}{67\frac{1}{8}}$ | " " |
| 4 | " | <i>Cornulella</i> E of above |
| 5 | $\frac{52\frac{1}{8}}{62\frac{1}{8}}$ | <i>Periclamidium venustum</i> B. fine |
| 6 | $\frac{52\frac{1}{8}}{52\frac{1}{8}}$ | <i>Halcatypha cornuta</i> B. " |
| 7 | $\frac{64}{66}$ | <i>Eucyrtidium hyperboreum</i> B. one |
| 8 | $\frac{60^+}{73\frac{1}{4}}$ | <i>Ceratospira</i> |

J.J. No. 649

2700 Fathoms, same as H.H.

42 Podocryptis?

64/4

35 7/8

30 1/4

52 7/8

66 3/4

48 1/4

63

51 3/4

60 3/4

Diffugia? murina B.

Small lagoon body

Aster omphalus Brookei B.

broken but good

Pleurospyris

J.J. No. 650

2700 Fathoms, same as H.H.

47 7/8

79 1/2

60 7/8

75 1/2

49 3/4

71 1/2

49 1/4

85 1/4

46

86 3/4

44 1/2

79

Comulella clathrata B. profunda

Halcalyptis? cornuta B.

with 2 spines

Comulella annulata B.

Coscinodiscus

large radiate

Halcalyptis? cornuta B.

top view in a mass close to edge of glass

side view of different species

2700 Fathoms same as H H'

- 56 1/8 Dictyophimus? / top view
- 69 3/4 ~~Hydrodelya~~ new
- 52 1/8 ~~Hydrodelya~~ stellata B
- 73 Rhizodencia hebelata B. ... Three specimens in same field
- 55 1/4 Perichlamidium
- 73 3/4 Eucryptidium
- 40 1/8 61.8
- 36 1/2 Cornutella new
- 63 1/2
- 44 Perichlamidium stored
- 25 7/8
- 53 1/4 Cornutella clathrata B profunda. the
- 36

L.L. No. 652

2700 Fathoms same as H.H.

$\frac{57}{79\frac{3}{4}}$ Asteromphalus Brookei B.

M.M. small slide No. 653

2700 Fathoms same as H.H. in natural state with the grease of the lead

1700 Fathoms same as N'N'

- 1 $\frac{52\frac{3}{4}}{84\frac{3}{4}}$ *Asteromphalus Brookei* B. on right of group just above *Coccolithus iris*
- 2 " *Coccolithus oculus Iris* S of above
- 3 " *Rhizolenia lobata* B. NW of last
- 4 $\frac{55\frac{1}{8}}{71\frac{1}{4}}$ *Eucyrtidium lineatum* ?
- 5 $\frac{51\frac{1}{2}}{80\frac{1}{8}}$ " " ?
- 6 $\frac{43\frac{3}{8}}{51}$ *Plectrogygis* not sp? ... described
- 7 " *Dietycephala* ? head of one close to last
- 8 $\frac{39\frac{3}{4}}{28\frac{1}{4}}$ *Coccolithus oculus Iris* the.
- 9 $\frac{37\frac{1}{4}}{51}$ *Eucyrtidium hypostomum* B. lineatum?
- 10 $\frac{35}{61\frac{1}{2}}$ *Coccolithus oculus Iris* ... good one
- 11 $\frac{24}{61\frac{3}{4}}$ *Dietycephala* ? ... portion of net.

1700 Fathoms

same as N.W.

Sea of Kamohatka

- | | | | |
|----|--|---|---|
| 1 | $\frac{43\frac{3}{8}}{84\frac{3}{4}}$ | <i>Asteromphalus Brookei</i> B | L. valves |
| 2 | $\frac{40\frac{1}{2}}{83}$ | <i>Perichlamidium</i> | |
| 3 | $\frac{58}{27}$ | <i>Coscinodiscus</i> ? | side view showing bands on the ring |
| 4 | $\frac{34}{28\frac{1}{4}}$ | " | " " |
| 5 | $\frac{68\frac{1}{2}}{72\frac{3}{8}}$ | <i>Denticella</i> ? | near a <i>Coscinodiscus</i> Argus. |
| 6 | $\frac{69\frac{1}{10}}{27\frac{7}{8}}$ | <i>Coscinodiscus</i> - <i>oculus Iridis</i> the | |
| 7 | $\frac{69\frac{1}{8}}{81\frac{1}{8}}$ | <i>Asteromphalus Brookei</i> B | |
| 8 | $\frac{66\frac{1}{4}}{64\frac{1}{8}}$ | <i>Coscinodiscus</i> | like <i>C. oculus Iridis</i> with larger cells |
| 9 | $\frac{65\frac{1}{8}}{69\frac{1}{2}}$ | <i>Asteromphalus Brookei</i> B | |
| 10 | $\frac{55\frac{1}{8}}{63\frac{1}{2}}$ | | Small pyriform <i>Polycista</i> with spines |
| 11 | $\frac{62\frac{1}{4}}{26\frac{7}{8}}$ | <i>Cyclotella</i> ? | new |
| 12 | $\frac{60\frac{1}{2}}{71\frac{1}{8}}$ | <i>Coscinodiscus</i> - <i>oculus Iridis</i> the | good one |
| 13 | $\frac{60\frac{1}{8}}{64\frac{1}{8}}$ | <i>Cornutella annulata</i> B. | ♀ |
| 14 | $\frac{58}{84-}$ | <i>Coscinodiscus</i> | large one, radiated? |
| 15 | $\frac{55\frac{3}{4}}{73\frac{1}{2}}$ | <i>Eucyrtidium</i> <i>hippoboscum</i> B. | |
| 16 | $\frac{51}{63\frac{1}{2}}$ | <i>Cornutella clavata</i> B. ... | W. of ... |
| 17 | $\frac{51\frac{1}{4}}{17\frac{1}{4}}$ | <i>Coscinodiscus</i> | with fine rays E of a bit of <i>Eucyrtidium</i> |
| 18 | $\frac{55}{24\frac{1}{8}}$ | <i>Dityocha</i> | new? N.E. of a broken <i>Coscinodiscus</i> |
| 19 | $\frac{58\frac{1}{2}}{58}$ | <i>Halicalyptus cornuta</i> B. | with 2 spines |
| 20 | $\frac{52\frac{1}{8}}{50}$ | <i>C. bicella</i> | small one. |
| 21 | $\frac{50\frac{3}{4}}{70\frac{1}{4}}$ | <i>Cornutella annulata</i> B. | ♀ good one |
| 22 | $\frac{48\frac{3}{4}}{74\frac{1}{4}}$ | <i>Denticella</i> | small one |
| 23 | $\frac{59\frac{1}{2}}{72\frac{3}{4}}$ | <i>Codium marinum</i> B. | |
| 24 | $\frac{38\frac{1}{4}}{62\frac{1}{4}}$ | <i>Agardhiopsis</i> ? <i>Algas</i> B. | |
| 25 | " | <i>Dichophimus gracilipes</i> B. | connecting the above |
| 26 | " | <i>Halicalyptus cornuta</i> B. | N.W. of above |
| 27 | $\frac{35}{64}$ | <i>Perichlamidium venustum</i> B. | fine one |
| 28 | $\frac{51\frac{3}{4}}{65\frac{1}{4}}$ | <i>Spongodiscus</i> ? | with long spines and a tube |
| | $\frac{42\frac{3}{4}}{27\frac{3}{4}}$ | <i>Perichlamidium venustum</i> B. | good |
| | $\frac{35\frac{1}{8}}{70\frac{3}{4}}$ | <i>Asteromphalus Brookei</i> | E of <i>Cos. oc. Irid.</i> |
| | $\frac{57\frac{1}{2}}{74\frac{1}{4}}$ | <i>Syndendrium dialema</i> | E of upper part of a long crooked line |
| | $\frac{53\frac{1}{8}}{74\frac{1}{8}}$ | " | " |

Q'Q'

No. 657

[657A PKE 9/1957]

1700 Fathoms - same as N'N'

light portion

1. $\frac{45}{65\frac{3}{4}}$ *Asteromphalus Brookii* B.

a perfect specimen

$\frac{38\frac{1}{4}}{54\frac{1}{2}}$ " "

col. in situ

$\frac{58}{67}$ *Rhizosolenia hebelata* B.

with cylindrical portion

$\frac{37\frac{3}{4}}{77\frac{3}{4}}$ *Gyrosigma*

small

" *Asteromphalus Brookii* B.

SW of last

collected portion

[657B PKE 9/1957]

No 657 Q'Q'a, small plate

Missing

1700 Fathoms same as N'N'

No 658 R'R' small slide (Herring)

900 Fathoms, limp (deep sea) 32° Lat, July 28/55 Lat, 60°30' Long 175 E. Sea of Kamohakaha

[658B R'Edg. 9/1917]

✓

No 658A

[658A R'Edg. 9/1917]

Atlantic Ocean

R'R'

Large Slide

2000 Fath

57° 17' N

22° 33' W

51 1/2 *Coscinodiscus*

2 specimens

71 1/4 *Eucyathidium*

frag.

40 1/4 *Euvodia gibba*

71

S.S' No. 659

900 Fathoms

same as R'R'

900 Fathoms (same as R'R')

- 1 $\frac{53\frac{1}{2}}{80\frac{3}{8}}$ *Asteromphalus Brookei* B. N. of a *Leucinodiscus oculus Iridis*
- 2 $\frac{68}{28\frac{1}{8}}$ *Calappa* sinose head
- 3 $\frac{66}{83}$ *Cyathella scortemuisi* B. - - - - - my first, near hor. rectangular lvs
- 4 $\frac{67}{38}$ " " " " " "
- 5 $\frac{63\frac{1}{8}}{61\frac{1}{4}}$ *Achiniscus* 5 rays - near a *Rhosolenia*
- 6 $\frac{63\frac{1}{2}^+}{62\frac{1}{4}}$ *Leucinodiscus* - - - - - ~~radiatus?~~
- 7 $\frac{56}{80\frac{3}{8}}$ *Eucyrtidium trizidulum?*
- 8 $\frac{24\frac{1}{4}}{20\frac{1}{2}}$ " *hyperboreum* B. *Senecium?*
- 9 $\frac{27}{31\frac{1}{8}}$ *Dilatophimus?*
- 10 $\frac{33\frac{1}{8}}{74}$ *Eucyrtidium hyperboreum* B. 2 specimens
- 11 " *Rhosolenia hebetata* B. " " SW of line
- 12 $\frac{31\frac{1}{8}}{65\frac{1}{2}}$ *Leucinodiscus oculus Iridis* Ehr.

900 Fathoms (same as RR')

$\frac{42^3}{80}$ *Uca*?

$\frac{63}{7\frac{1}{4}}$ *Polydora*: large one

Y'Y' No. 662

900 Fathoms same as R'R' - guide lines on wrong side

W'W' No. 663

900 Fathoms same as R'R' (recorded by position of edges of slide)

N.B. The guide lines being ruled on the wrong side have not been used, but the record was made by means of the ~~edges~~ edges of the glass, the wrong being to the left and under M.

- | | | | |
|---|--|---------------------------------|---|
| 1 | $\frac{18\frac{3}{4}}{108\frac{7}{8}}$ | Asteromphalus Brookei (B.) | good one |
| 2 | $\frac{13}{91}$ | Egrosyona | very thin |
| 3 | $\frac{25\frac{1}{2}}{29\frac{1}{2}}$ | Asteromphalus Brookei B. | |
| 4 | $\frac{40}{109\frac{1}{2}}$ | Xoscinodiscus oculus Iridis Sh. | |
| 5 | $\frac{21\frac{1}{8}}{109\frac{1}{8}}$ | Whirodemia hebelata B. | second specimen |
| 6 | $\frac{25\frac{1}{8}}{109\frac{1}{8}}$ | Xoscinodiscus oculus Iridis Sh. | |
| 7 | $\frac{37\frac{7}{8}}{134\frac{3}{4}}$ | " " " " | with anther (C. Argus?) like an ellipse |

: X'X' No. 664.

900 Fathoms ... same as R'R'

- | | | | |
|---|---------------------------------------|-----------------------|-------------|
| 1 | $\frac{62\frac{3}{4}}{68\frac{1}{2}}$ | <i>Eucyrtidium</i> | |
| 2 | $\frac{57\frac{1}{2}}{71\frac{1}{4}}$ | <i>Dicladia Mitra</i> | ♂ |
| 3 | $\frac{36\frac{1}{2}}{81\frac{1}{2}}$ | <i>Eucyrtidium</i> | like no 1.? |

900 Fathoms same as R'R'

- | | | | |
|----|---------------------------------------|-----------------------------------|---------------------------|
| 1 | $\frac{65\frac{1}{2}}{27}$ | <i>Halimma</i> | small one |
| 2 | $\frac{65\frac{1}{2}}{25}$ | <i>Halicyptera cornuta</i> B | 2 horns |
| 3 | $\frac{60}{82\frac{1}{2}}$ | <i>Cocconeis</i> | 2 specimens in same field |
| 4 | $\frac{58\frac{1}{4}}{72\frac{1}{4}}$ | <i>Asteromphalus Brookei</i> B. | |
| 5 | $\frac{54}{73\frac{1}{2}}$ | <i>Ecyathium hypocaloneum</i> | |
| 6 | $\frac{53}{11\frac{1}{4}}$ | <i>Cocconeis oculis</i> Lich's Th | |
| 7 | $\frac{48\frac{1}{2}}{77\frac{1}{2}}$ | <i>Cornulella annulata</i> B | 1 |
| 8 | $\frac{44\frac{1}{4}}{70\frac{1}{2}}$ | <i>Cocconeis oculis</i> | 2 specimens |
| 9 | $\frac{44\frac{1}{2}}{26\frac{1}{2}}$ | <i>Lithothryx inflatum</i> B | specimens |
| 10 | $\frac{40\frac{1}{2}}{62\frac{1}{4}}$ | <i>Stylodictya</i> | one or two, sparse |
| 11 | $\frac{40\frac{1}{2}}{75}$ | <i>Triceratium</i> | |
| 12 | $\frac{38}{22}$ | <i>Cocconeis oculis</i> Lich's Th | |
| 13 | " | " | small, three |
| 14 | $\frac{35\frac{1}{2}}{74}$ | <i>Didadia Mitra</i> B. | |
| 15 | $\frac{31\frac{1}{2}}{51}$ | <i>Lithothryx</i> | |

L'Y' No. 666 2 slides

Mud from head of a whale captured in Chook Sea. Lat $57^{\circ} 28' N$. Long $151^{\circ} 20' E$

W'a. No. 666 1/2

[See No. 615 FILE 100
09/1977]

Dec VIII. 300 faths. Boiled in No 105

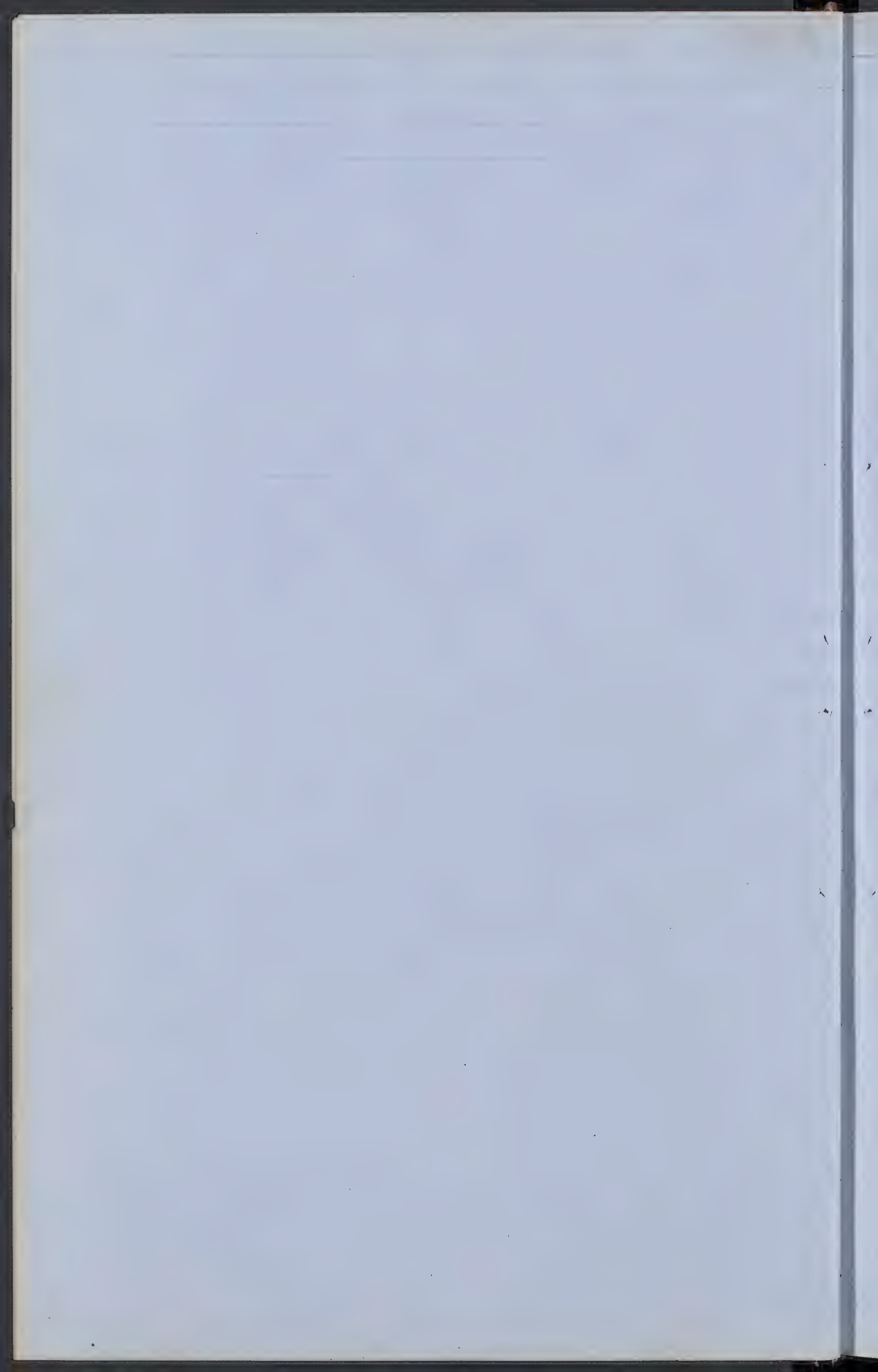
W'b. No. 667

300 fathoms Boiled in No 5 x H.C.

W'c. No. 668

300 faths.

acted on by No 5 x H.C. then ignited then
heated with xH0



Berryman's Soundings
between America and Ireland in 1856

Cat. No. 669
Berryman's Sounding No 1, $47^{\circ} 50' N$, $52^{\circ} 00' W$. Depth 96. Fath

No. 670 Berryman No 2, (light parts) $48^{\circ} 00' N$, $51^{\circ} 41' W$ 150. fath

Lat. No 691

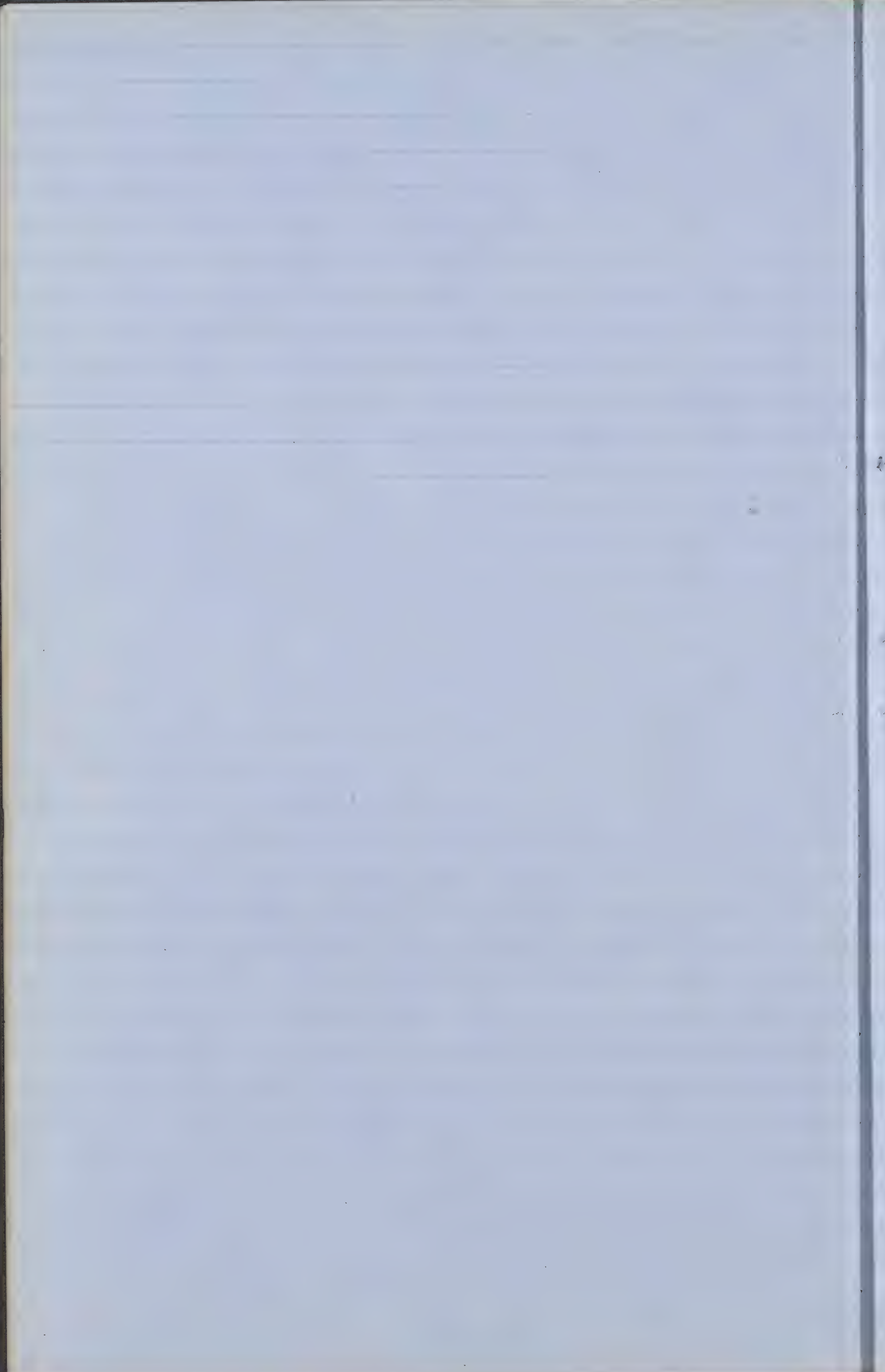
Berrymar No 3

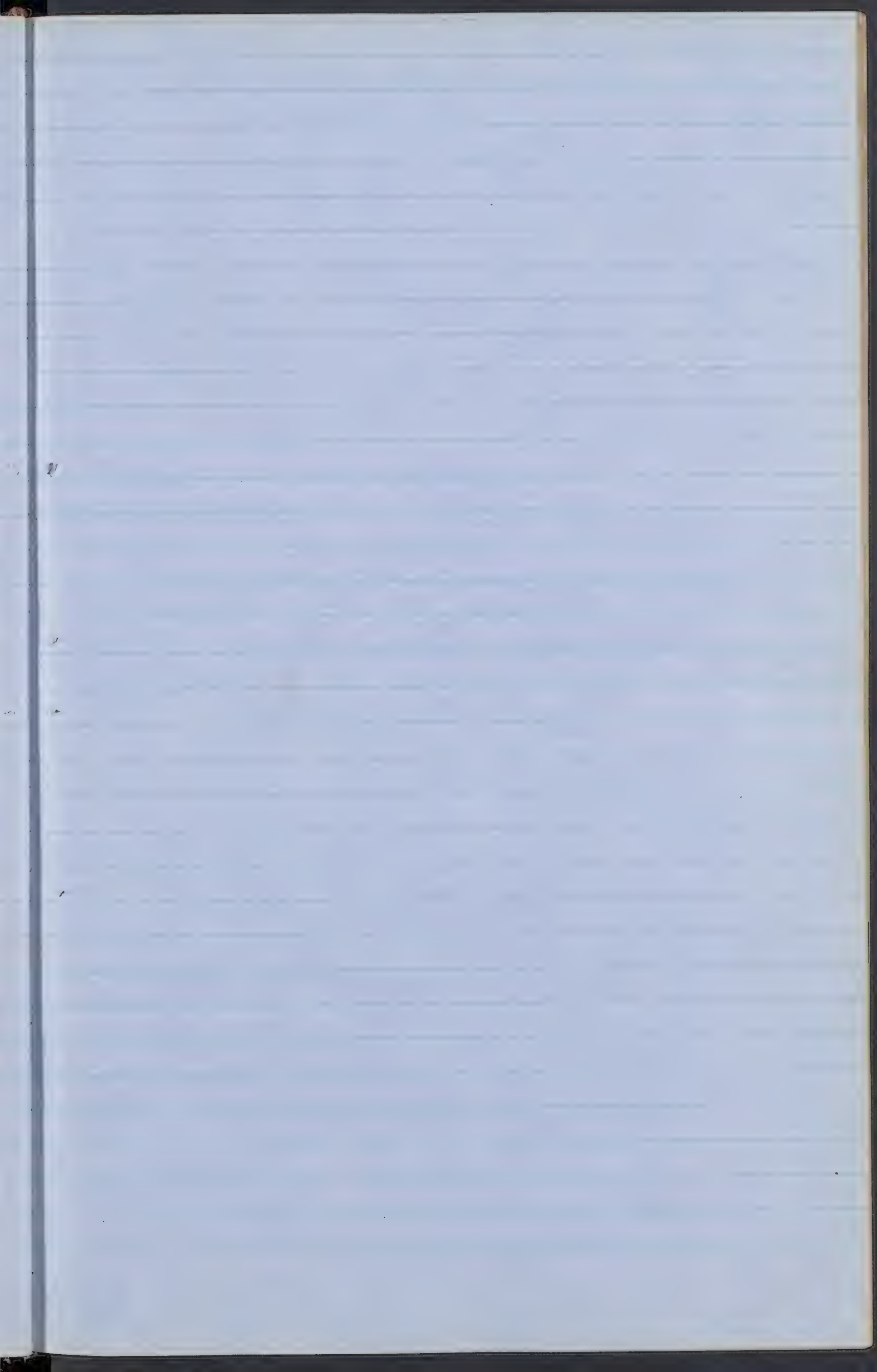
48° 13' N 51° 20' W 98 Fath

No-672

Berryman No 4, light parts 40° 27' N. 50° 58' W. 85 Fath.

71 1/2	<i>Loscinodiscus</i>	broken at top		71 1/2
71 3/4	"	<i>crasso?</i> B		71 63 1/2
	<i>Synedra</i>		N. W. of last	"
	<i>Loscinodiscus</i>	<i>scelus</i> var. <i>viridis</i>		70 75 1/4
	<i>Chaetoceros</i>	<i>boreale</i> B		69 73 1/4 +
	"	<i>furcillatum</i> B.	N. of last	"
	"	"		68 3/4 72
	<i>Actiniscus</i>	5 rays		66 69
	<i>Chaetoceros</i>	<i>furcillatum</i> B	2 specimens N. of last	"
	<i>Loscinodiscus</i>		large one	65 1/2 75 1/2
	<i>Chaetoceros</i>	<i>boreale</i>	fragm fragm N. of 2 spicules	65 1/2 67 1/4
	<i>Loscinodiscus</i>		good	65 69
	<i>Rhizosolenia</i>		in a crowd - Y	61 3/4 61
	<i>Chaetoceros</i>	<i>boreale</i> B.	fragm.	60 76 1/2
	<i>Ceratopyxis?</i>		"	59 70
	<i>Actiniscus</i>			56 1/4 60 1/2
	<i>Loscinodiscus</i>		fine one	55 80 3/4
	<i>Chaetoceros</i>	<i>boreale</i> B	with one long horn touching a <i>Synedra</i>	46 1/2 65 1/3
	<i>Dicladia</i>	<i>Mitra?</i> B	S. of a brown spot	44 74 1/4
	<i>Polythalamian</i>	shell, membrane of		42 3/4 71 1/2
	<i>Loscinodiscus</i>		good one	40 1/2 74
	<i>Grammostomum?</i>	membrane of		38 1/4 60 1/2
	<i>Rhizosolenia</i>	<i>decurrens</i> B.	nov. sp	37 3/4 60 1/4
	<i>Loscinodiscus</i>	<i>borealis</i> B	good	35 3/4 28 1/2
	<i>Rhizosolenia</i>	<i>decurrens</i> B.		34 1/2 61 3/4
	"	"	SW of a little	34 1/4 62 1/2





No. 643

Berryman No 5

42° 40' N 50° 36' W

120 fath

$\frac{44}{70\frac{1}{2}}$ *Leoscinodiscus borealis* B

$\frac{44}{70\frac{1}{2}}$

" *crassus* "

$\frac{64\frac{1}{2}}{89\frac{3}{4}}$

Spongiolites - *liceps* B n. sp

$\frac{70}{69}$

Denticella *acuta* Ehr deformed

$\frac{67}{85\frac{1}{4}}$

Schiniscus

$\frac{63\frac{1}{2}}{73}$

Leoscinodiscus borealis B

fine

$\frac{65}{28}$

Sagena?

$\frac{63}{88\frac{1}{4}}$

Spongiolite



+

$\frac{62\frac{1}{2}}{84\frac{1}{2}}$

Strophoceras?

$\frac{58}{82\frac{3}{4}}$

Tessella *catena*?

$\frac{40\frac{1}{2}}{80\frac{1}{2}}$

1	<i>Loricodiscus borealis</i> B		52 1/4
2	" " <i>oculus iridis</i> Ehr		69 3/4
3	" " <i>crassus?</i> <i>L. borealis</i> retreat size?		67 1/2
4	" "		67
5	<i>Strophomonas Ehrenbergii</i> B. n. sp		67
6	<i>Loricodiscus borealis</i> B	fine one	26 3/4
7	<i>Eucyrtidium auritum?</i> Ehr		66 1/2
8	<i>Loricodiscus borealis</i> B	fine	80
9	<i>Strophomonas Ehrenbergii</i> B	2 specimens	64 1/4
10	<i>Rotalia levii</i> B. n. sp		68
11	<i>Strophomonas</i>		64 1/2
12	<i>Loricodiscus borealis</i> B	good	75 1/4
13	<i>Rotalia levii</i> B.		62 1/2
14	<i>Loricodiscus oculus iridis</i>		69 3/4
15	<i>Strophomonas Ehrenbergii</i>		74 1/4
16	<i>Polydora?</i>		59 1/2
17	<i>Strophomonas Ehrenbergii</i> B		80
18	<i>Loricodiscus borealis</i> B.		58 1/2
19	<i>Strophomonas Ehrenbergii</i>		20 1/4
20	" "		57 1/2
21	<i>Eucyrtidium auritum?</i> Ehr		83
22	<i>Loricodiscus borealis</i> B.	good	56 1/2
23	<i>Strophomonas Ehrenbergii</i> B		60 1/4
24	" " " with spinose apex		55 1/2
25	<i>Loricodiscus oculus iridis</i> Ehr	large	71
26	<i>Grammatophora?</i>	end view	53
27	<i>Loricodiscus oculus iridis</i> or <i>Polydora</i> Bell		64 1/4
28	<i>Loricodiscus oculus iridis</i> Ehr	good	50
29	" <i>borealis</i>	"	62 1/2
30	<i>Strophomonas Ehrenbergii</i>		21 1/2
31	<i>Eucyrtidium auritum</i> Ehr		21 1/4
32	<i>Strophomonas Ehrenbergii</i> B	looking last	69 3/4
33	<i>Rotalia</i>		69
34	<i>Loricodiscus crassus</i>		34 1/2
			67 3/4
			30
			70 1/4

No 644 Berryman No 6 natural slate . 48° 51' N . 50° 10' W . . 1100 F.

No. 645 . . . Berryman No 7 natural slate . 50° 05' N . 40° 26' W . . 1500 Feet

No 675: Berryman No 7 light fruit 50° 05' N, 40° 26' W 1570 fath.

No. 676 Berryman No 8, a, matured state 50° 20' N 88° 30' W 1564 fath.

No 677. Beaman No 8, b. light parts

50° 20' N. 38° 30' W.

1564. F.M.

58
62^h

Eucyrtidium

58
66^h

Eucyrtidium

62
76^h

"

43¹/₄
67³/₄

Grumostomum

N.E. of last

"

Parmitella

39¹/₄
72¹/₂

No. 678

[678A PLEDger 9/1977]

Berryman No 8.c with acid, light part 50° 20' N 38° 30' W

1564 Fath

<i>Coscinodiscus borealis</i> B	$\frac{51\frac{3}{4}}{72\frac{1}{2}}$
<i>Flustrella concentrica?</i> Ehr	$\frac{57\frac{1}{2}}{84\frac{3}{4}}$
<i>Coscinodiscus</i>	$\frac{61}{73}$
<i>Eucyrtidium aurum...</i>	$\frac{61\frac{3}{4}}{81}$
<i>Coscinodiscus borealis</i> B	$\frac{60\frac{1}{2}}{68}$
<i>Eucyrtidium</i>	$\frac{59\frac{1}{2}}{65\frac{3}{4}}$
<i>Coscinodiscus borealis?</i> B	$\frac{58}{71\frac{1}{2}}$
<i>Flustrella concentrica</i> Ehr	$\frac{57\frac{3}{4}}{85}$
<i>Coscinodiscus borealis</i> B	$\frac{55\frac{1}{2}}{76\frac{1}{2}}$
" "	$\frac{51\frac{3}{4}}{72\frac{3}{4}}$
" "	$\frac{50\frac{1}{2}}{62}$
<i>Comitella clathrata</i> , 3 profunda Ehr	$\frac{42}{74}$
<i>Haliomma opposita</i> B	$\frac{39\frac{3}{4}}{79\frac{1}{2}}$
<i>Caenophaeria Plutonis?</i> Ehr	$\frac{38\frac{3}{4}}{89\frac{1}{2}}$
<i>Haliomma</i>	$\frac{36}{76}$

good one

[678B PLEDger 9/1977]

Berryman No 8.d. with acid, light part

50° 20' N 38° 38' W

1564 Fath

No. 679

Bovymon No 8 e, treated with HCl acid

<i>Coccinodiscus borealis</i> B	broken	$\frac{49}{77\frac{1}{2}}$
<i>Eucyrtidium</i>		$\frac{56}{75}$
"		$\frac{61\frac{1}{2}}{81}$
"		$\frac{63}{79\frac{1}{4}}$
"		$\frac{61}{67\frac{1}{2}}$
"		$\frac{60\frac{1}{4}}{78\frac{1}{4}}$
<i>Coccinodiscus borealis</i> B	good	$\frac{59}{70}$
<i>Eucyrtidium</i>		$\frac{60}{28}$
<i>Halicyrga erosa</i> B		$\frac{55}{60}$
<i>Rhizosolenia decurrens</i> B	SW of last, breaking it.	"
<i>Flustrella</i>		$\frac{54}{82\frac{1}{2}}$
<i>Halicyrga</i>	NE } of last SE }	"
<i>Coccinodiscus</i>		
<i>Podocorytho</i>		$\frac{39\frac{1}{2}}{80\frac{1}{2}}$
<i>Spongodiscus</i>		$\frac{49\frac{1}{2}}{29}$
<i>Eucyrtidium</i>		$\frac{59}{80\frac{1}{2}}$
<i>Gammetta clathrata</i> (B profunda) Ehr		"
<i>Eucyrtidium</i>		$\frac{59}{84}$

No. 680

Berryman No 9a natural slab 50° 44' N 37° 15' W 1600 Fath.

No. 681

Berryman No 9 b with acid 50° 44' N 37° 15' W

Berryman No 9c, with acid, lightest part	50° 44' N - 37° 15' W	16007
<i>Loscinodiscus</i> <i>cinereus</i> ?	broken	$\frac{43\frac{3}{4}}{64}$
<i>Ladium</i>		$\frac{58\frac{3}{4}}{74}$
<i>Loscinodiscus</i>		$\frac{58}{27}$
<i>Rhizosolenia decurrens</i> B		$\frac{58\frac{3}{4}}{64\frac{1}{2}}$
" " "	SE of last	"
<i>Loscinodiscus</i>	seen obliquely	$\frac{58}{20\frac{3}{4}}$
<i>Loscinodiscus borealis</i> B	fine	$\frac{58}{27}$
<i>Ladium</i>		$\frac{56\frac{3}{4}}{26}$
<i>Halimma</i>		$\frac{56\frac{1}{4}}{60\frac{3}{4}}$
<i>Halicanys</i>		$\frac{56}{64}$
<i>Loscinodiscus</i>		$\frac{54\frac{1}{2}}{65\frac{3}{4}}$
<i>Quinqueloculina</i> ?	membrane of,	$\frac{52}{28\frac{3}{4}}$
<i>Halimma apperita</i> B.		$\frac{51\frac{1}{4}}{26\frac{1}{2}}$
<i>Ladium</i> ? <i>parvum</i>	on E of coast	$\frac{48\frac{3}{4}}{61\frac{1}{2}}$
<i>Dictyophimus</i>		$\frac{48\frac{3}{4}}{76\frac{1}{4}}$
<i>Soleniscus</i>	5 rays	$\frac{48\frac{1}{4}}{74}$
"	N.E. of last	"
<i>Cryptodinium avritum</i> ? <i>Sh</i>		$\frac{47}{73\frac{1}{4}}$
<i>Ladium</i>		$\frac{47\frac{1}{4}}{73}$
<i>Rhizosolenia decurrens</i> B	2 specimens	$\frac{45\frac{1}{4}}{63}$
<i>Loscinodiscus borealis</i> B	good	$\frac{41\frac{3}{4}}{66\frac{1}{2}}$
<i>Halicalyptra</i> ?		$\frac{41\frac{3}{4}}{62\frac{1}{4}}$

No. 680

Berryman No 9 d, with acid, light part. ... 58° 44' N 37° 15' W 1600 Fath.

No 684

Berryman No 9 e with acid, heaviest part 50° 44' N 37° 15' W 1600 Fath

<i>Spongodiscus spinosus</i> B. num. --- with rays	46 3/4 65 1/4
<i>Eucypridium auratum</i> ? Ubr N of East	"
<i>Halicyrja crosa</i> - B.	69 1/2 72 1/2
<i>Spongodiscus aculeatus</i> ? Ubr	65 1/4 72
<i>Halimma</i> --- see 5'	6 73 3/4
<i>Pumice</i> ---	63 71 1/4
<i>Eucypridium auratum</i> ? Ubr	60 3/4 66
<i>Flustrella</i>	59 1/4 74 1/4
<i>Halicyrja</i>	58 3/4 69 1/2
<i>Leosinodiscus</i> ---	55 1/2 64
<i>Podocypis Berrymanii</i> - B.	52 77 1/2
<i>Leomitella clabrata</i> (B) profunda Ubr	44 1/2 72 3/4

No. 683

Berryman No 9 f. light parts, natural state . . . 50° 44' N 37° 15' W

No. 686

Perryman No. 10 a, natural state 50° 06' N 35° 50' W 1050 F. A.

No. 687

Berryman No 10 b light part

58° 06' N .. 35° 50' W

No. 688

Berryman No 10 c, with acid

Spongodiscus

large no handle

$\frac{46\frac{1}{2}}{70}$

Coscinodiscus crassus B

$\frac{67\frac{1}{4}}{63\frac{3}{4}}$

Haliomma

with long spines

$\frac{61\frac{3}{4}}{26\frac{1}{2}}$

Halicarya

$\frac{51\frac{1}{4}}{72\frac{1}{4}}$

Coscinodiscus *stimulata* B

$\frac{57\frac{1}{2}}{79}$

No. 689

Berryman No XI_a natural state.

51° 15' N. 34° 05' W

1680 f. M.

no 640

Berryman Roll b. light parts

Berriman No 11 c with acid

<i>Isthmia nervosa</i> Sm		56 1/4
		75 3/4
<i>Eucyrtidium</i>		69 1/4
		80 1/2
<i>Codium</i>		68
		72 3/4
<i>Cornuclleta</i>		66 1/2
		64 3/4
<i>Codium</i>		67
		64 1/4
<i>Coccioidiscus</i>		63
		60
<i>Cornuclleta attenuata</i>		60 1/2
		29
<i>Halicalyptis?</i>	small	56
		41
<i>Cornuclleta</i>		55 3/4
		56 1/2
<i>Dichyocha</i>		54
		71 1/2
<i>Cornuclleta clathrata</i> 3 fragments Ehr		52
		66 3/4
<i>Podocorytis Berrimanii</i> H.		50
		77 1/2
<i>Eucyrtidium</i>	frag:	50
		62
<i>Lichyosiphonia</i>	S.E. of last	49 1/2
		61 1/2
<i>Histiadrum</i>	near:	49 3/4
		75 1/2
<i>Eucyrtidium</i> :		48 1/2
		90 1/2
<i>Flustrella</i>		46 3/4
		80
<i>Eucyrtidium</i>		11 1/2
		75
"		41 1/2
		65 1/2
Bit of Pumice		40 1/2
		67 1/2
" "		38 1/2
		62 1/2
" "		37 3/4
		25 1/2
<i>Eucyrtidium?</i>		36 3/4
		64 1/4
<i>Triceratium</i>		36 3/4
		72 1/2
<i>Histiadrum triiceps</i> B		36
		72 3/4
<i>Cornuclleta</i>	N.E. of last	"
		"
<i>Podocorytis Berrimanii</i>		34
		85 1/2
<i>Leucosphaeria</i>		33 1/4
		87 1/2
<i>Halicalyptis?</i>		33 1/2
		98 1/2

No. 692

Berryman. No 12 a

~~is~~ natural slate

50° 38' N 32° 20' W

2070 Fall

No. 693

Berryman No 12 b, natural slate

No. 694

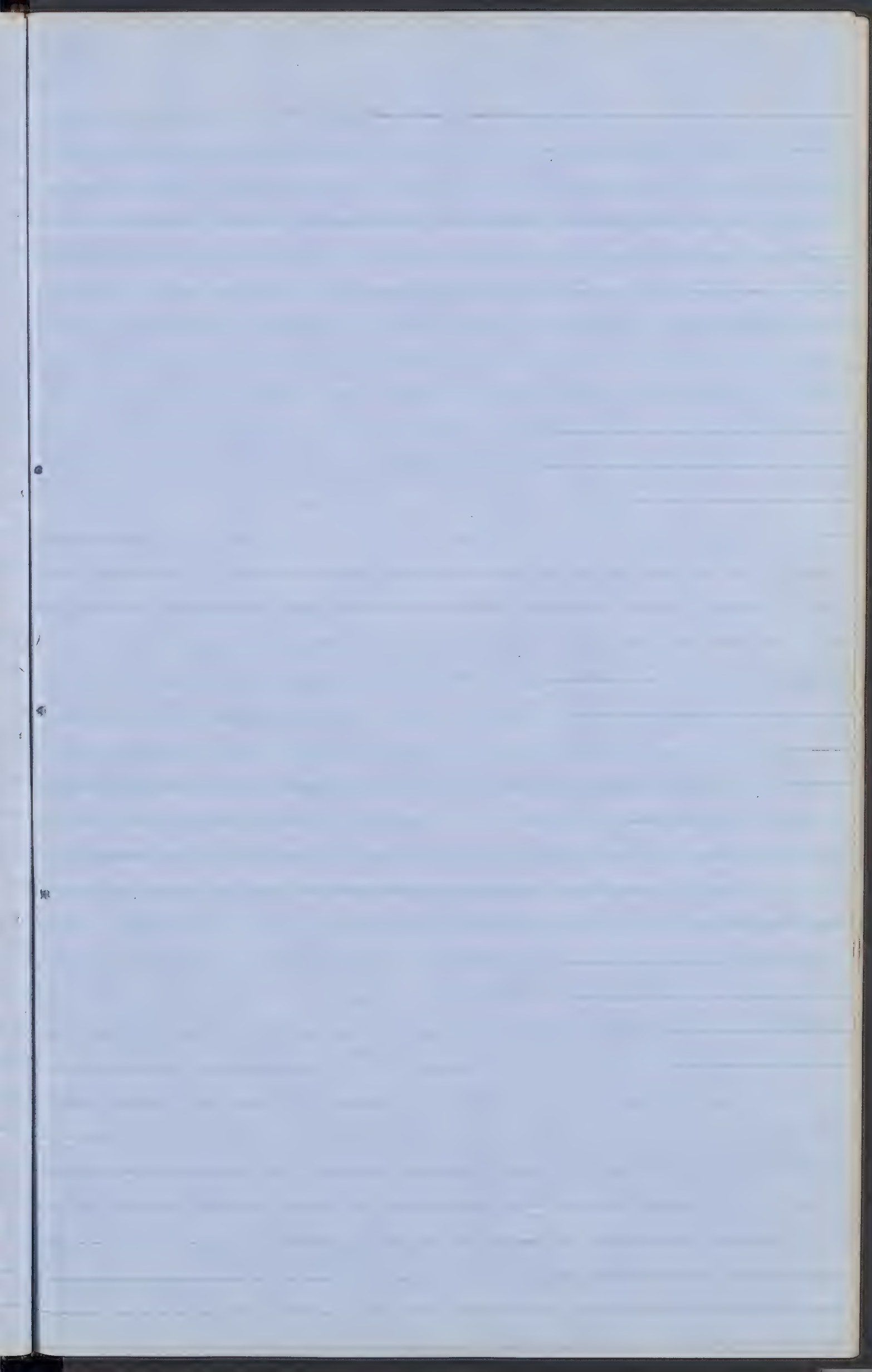
Berryman No 13 a natural state

52° 24' N 29° 16' W 2000 Fm

No. 695

Berryman No 13 b, with acid, 52° 24' N 29° 16' W

2000 Fm



No. 696

Berryman No 14 a natural slate . . . 52° 26' N 27° 18' W . 1830 Falt

No. 697

Perryman No 14 b. light parts

1830 Feb

No. 698

Berryman No 14 c with acid 52° 26' N 27° 18' W . . . 1830 fath

No. 699

Berryman No 15 a natural state.

52° 26' N

26° 20' W

1930 Fall

No. 700

Berrymun No 15, b. light purple 52° 26' N 26° 20' W 1930 Fath

See 102

<i>Lascomodiscus</i>		44 1/4
<i>Bacteriostroma</i> central portion		82 1/4
in a circle & E. of a black spot		65
<i>Cornutella clathrata</i>		68
<i>Halicalyptra</i> ? drawn		63 1/2
<i>Flustrella</i> ?? broken		65 3/4
<i>Spongodiscus</i>		77 1/4
<i>Halosigma</i> broken		65
<i>Palyces</i> ? new fragment not to be drawn	B	74 1/2
		60
		74 1/2
		61
		83 1/2
		60 1/2
		61 1/4

64
76 1/2

60 1/2
50 1/2

Berryman No 15 c, with acid light part.

	<i>Coscinodiscus</i>		141 1/4
	<i>Bacteriasium</i> central portion in a crowd		82 1/4
	& E. of a black spot.		65
	<i>Cornutella clathrata</i>		68
			62 1/2
			65 1/2
64	<i>Halicalyptus</i> ? drawn		63 3/4
76 1/2	<i>Frustella</i> ?? broken		77 1/4
			63
	<i>Spongodiscus</i>		74 1/2
	<i>Halimma</i> broken		60
			74 1/2
			61
			83 1/2
60 1/2	<i>Polycestra</i> ? new fragments	not to be drawn	60 1/2
60 1/2	<i>Dietyophimus</i> ?		61 1/4
	<i>Cornutella friscella</i> fragment		56 3/4
			64 1/4
			56
			88 1/4
55 1/2	<i>Halicalyptus</i> like no 4		55 1/4
86			86
	<i>Codium varium</i>		55 1/2
			85
	East of spine of <i>Echinus</i> ??		55 1/4
			82
	<i>Spongodiscus</i> ? capitatus B new		54 3/4
	S. of a broken <i>Halimma</i>		77
	<i>Cornutella annulata</i> B.		54 1/4
			82 1/2
	East. of spiral <i>Polythalamia</i>		53 1/2
			86 3/4
	<i>Coscinodiscus</i>		52 1/2
			88
	<i>Encyrtidium</i> good		48 1/2
			72 1/4
	<i>Actiniscus</i>		46 3/4
			89 1/4
	<i>Spongodiscus</i>		45 3/4
			61 3/4
	<i>Halimma</i> broken showing mela.		45 1/4
			85 1/2
44	<i>Codium</i> ?? paradoxica ? not to be drawn		43 3/4
81	end view ? touching a bit of <i>Spongodiscus</i>		81 1/2
	<i>Encyrtidium</i>		42 1/2
			66 1/2
	<i>Frustella concentrica</i> ?		40
			72 3/4
40	<i>Dietycephala araneosa</i> B. head part		39 3/4
88 1/2	touching a dark mass + S.W. of a <i>Coscinodiscus</i>		88 1/2
	<i>Cornutella clathrata</i>		58 1/2
			79 1/2
	<i>Halimma opposita</i> ? B		37 3/4

No. 902

Beryllium No 15 d. with acid, heavy part

52° 26' N. 26° 20' W. 1930. Fall

No. 703

Berryman No 16a natural state 52° 0.2' N 24° 51' W

No. 704

Berryman No. 16 b. with acid. left part.

52° 02' N. 24° 51' W

1873. Feb

<i>Flustrella concentrica</i>	broken	53 3/4
		64
<i>Coruntella atlantica?</i>	2 specimens	65 3/4
		75 1/2
<i>Coruntella clathrata</i>		65 1/4
		75 1/4
<i>Encyrtidium</i>		60 1/2
		78
?		59
		72 1/4
<i>Halicarya erosa?</i>		59 1/4
		74 1/2
<i>Encyrtidium lineatum?</i>		59
		74 3/4
<i>Rhizosolenia</i>	quite faint	59
		81 1/2
<i>Halionna</i>		54 1/2
		84 1/4
<i>Halistropha contorta?</i>	see p. 209	58
		79 1/2
<i>Halicalypta?</i>	S. of a broken <i>Flustrella</i>	56 3/4
		82 1/4
<i>Encyrtidium</i>		55 3/4
		63 1/4
<i>Halicarya</i>		55 1/2
		28
<i>Bacteriastrium</i>	central portion	53 3/4
	w. of a globular brown mass	79 1/4
<i>Podocystis Berrymanni</i>		52
		66
<i>Coecimodiscus</i>	Small	52 1/2
		85 1/4
<i>Encyrtidium</i>		50 1/2
		81 3/4
<i>Enodia gibba</i>	Small one S.E. of last limbing large mass	59 1/2
		66 1/2
<i>Encyrtidium tritonis</i>		49 1/2
		64 1/4
<i>Flustrella</i>		49
		67
<i>Enodia gibba</i>	Small one	45 1/2
		65 1/4
<i>Encyrtidium</i>		44 3/4
		25 1/2
<i>Rhizosolenia decurrens</i>	near S.E. corner of dirty mass	44 1/2
		61 1/4
<i>Encyrtidium tritonis</i>		44
		28
<i>Encyrtidium</i>		43 1/4
		70 3/4
<i>Coecimodiscus</i>		42
		86 1/4
"	another species	44 1/4
		71 1/4
<i>Halionna</i>		41
		81

51
66

No. 705

Berryman No. 16 c with acid, heavy part ... 52° 02' N. 24° 51' W ... 1873 Feb

No. 706

Berryman No. 16 d, light part

No. 404

Beaman No 17 a, natural state

57° 41' N. 22° 23' W

1650 Fath

No. 708

Berryman No 17 b, Light point

$57^{\circ} 41' N$ $22^{\circ} 23' W$

1650 Fall

No. 709

Berryman No 17 c with acid

51° 41' N

22° 23' W

1650 fms

<i>Halimnema opposita</i>	46 3/4
<i>Corantella atlantica</i> 3 specimens	91
<i>Encyrtidium simplex</i> ??	46 3/4
<i>Spongodiscus</i>	72
Spiny & unspined Spongozete.	46
	64
	45 3/4
	87
	469
	72 3/4
<i>Flustrella concentrica</i>	52 1/2
<i>Enodia gibba</i>	84 3/4
<i>Bacteriastrum</i> just. S of small <i>Coscinodiscus</i>	62 3/4
<i>Dietyocha speculum</i> ?	83 1/4
<i>Encyrtidium tritonis</i>	63
<i>Corantella atlantica</i>	74
<i>Halicalytra</i> ?	63 1/2
<i>Encyrtidium</i>	76 3/4
<i>Coscinodiscus</i>	61
<i>Codium marinum</i>	81 1/4
" (many others not recorded)	60
<i>Actiniscus</i> S of last	74 1/4
<i>Corantella clathrata</i>	58 3/4
" <i>atlantica</i>	65 1/2
<i>Encyrtidium</i>	55 3/4
Coarse net work	73
<i>Encyrtidium</i> } S of last	56
<i>Lichobotrys</i> ? } S of last	70 1/4
<i>Halicalyptis</i> ??	54
<i>Encyrtidium</i> ? <i>simplex</i> ?	63 1/2
<i>Lichobotrys</i> ?	53 3/4
<i>Rhizosolenia decurrens</i>	84 1/2
Forms seen but not recorded	"
<i>Dietyocha fibula</i> common	50 3/4
<i>Synedra</i>	81 1/2
<i>Rhizosolenia decurrens</i>	50 1/2
<i>Actiniscus</i>	65 1/3
<i>Encyrtidium lineatum</i>	50 1/2
<i>Dietyocephala</i> fragment	64
	50 1/4
	84
	49
	74
	48 3/4
	88 1/2
	48
	70 1/4
	48
	66 1/4

No. 710

Bergman No 18a natural state

57° 45' N, 21° 19' W

1891 Fall

No. 711

Bergman No 18 b, light part,

"

"

No. 712

Berryman No 18 c, with acid.

57° 45' N. 21° 19' W.

1590 Feb 2

Some good things on lower part not yet recorded.

<i>Halicalyptea</i>	35 3/4
<i>Flustrella concentrica</i>	81
<i>Halicalyptea petasus</i> - fragment of rim?	58
at base seen	72
<i>Enodia gibba</i> B. good one	58
<i>Halionna opposita</i> ?	25 3/4
<i>Encyrtidium</i> new? drawn	56 1/2
<i>Encyrtidium vibratum</i> + B.	80 1/8
<i>Coscinodiscus oculus iridis</i> ? fine one	55 1/4
<i>Podocyrtes</i> ? - head	20
<i>Coscinodiscus borealis</i> ? good	55 1/4
<i>Halionna opposita</i>	84 1/2
<i>Radium marimum</i>	52 1/2
Piece of Pumice	92 1/8
<i>Encyrtidium elongatum</i>	52 3/4
<i>Podocyrtes</i> like <i>P. Berrymanii</i>	84 1/4
with	50 1/2
<i>Caenosphaeria</i> like grains of pollen	88
<i>Caruntella fuscilla</i>	14 7/8
<i>Flustrella concentrica</i>	65 1/4
<i>Plectrospyrus cancellatus</i> B.	47
<i>Podocyrtes Berrymanni</i> B. see K	57 1/2
Coarse net work	57 1/8
<i>Halicalyptea</i> ?	15 1/4
<i>Encyrtidium lineatum</i> ? good	89 1/2
<i>Caenosphaera Neptunis</i> B. S.E. of last.	15
<i>Encyrtidium</i> new? drawn	84 3/4
<i>Dictyophimus</i> ?	45 1/2
<i>Flustrella concentrica</i> ?	75 1/2
<i>Coscinodiscus oculus iridis</i> ?	45 1/2
<i>Caruntella lathrata</i> β profunda	62 3/4
<i>Encyrtidium lineatum</i> S.E. of last	43 3/4
<i>Caruntella atlantica</i> ?	65
<i>Podocyrtes</i> new sp. fine	14 2/3
<i>Halionna</i>	87
<i>Coscinodiscus</i> small	44
<i>Halionna</i> ?	76
	140
	72 1/4
	38 3/4
	29 1/4
	34
	85
	36 1/2
	80 1/4
	35 3/4
	63 1/4
	48
	85
	70 1/4
	180 1/4
	70 1/2
	82 1/4
	"
	70
	86
	68 3/4
	60 1/2
	69
	71
	69
	84 3/4
	68 3/4

No. 713

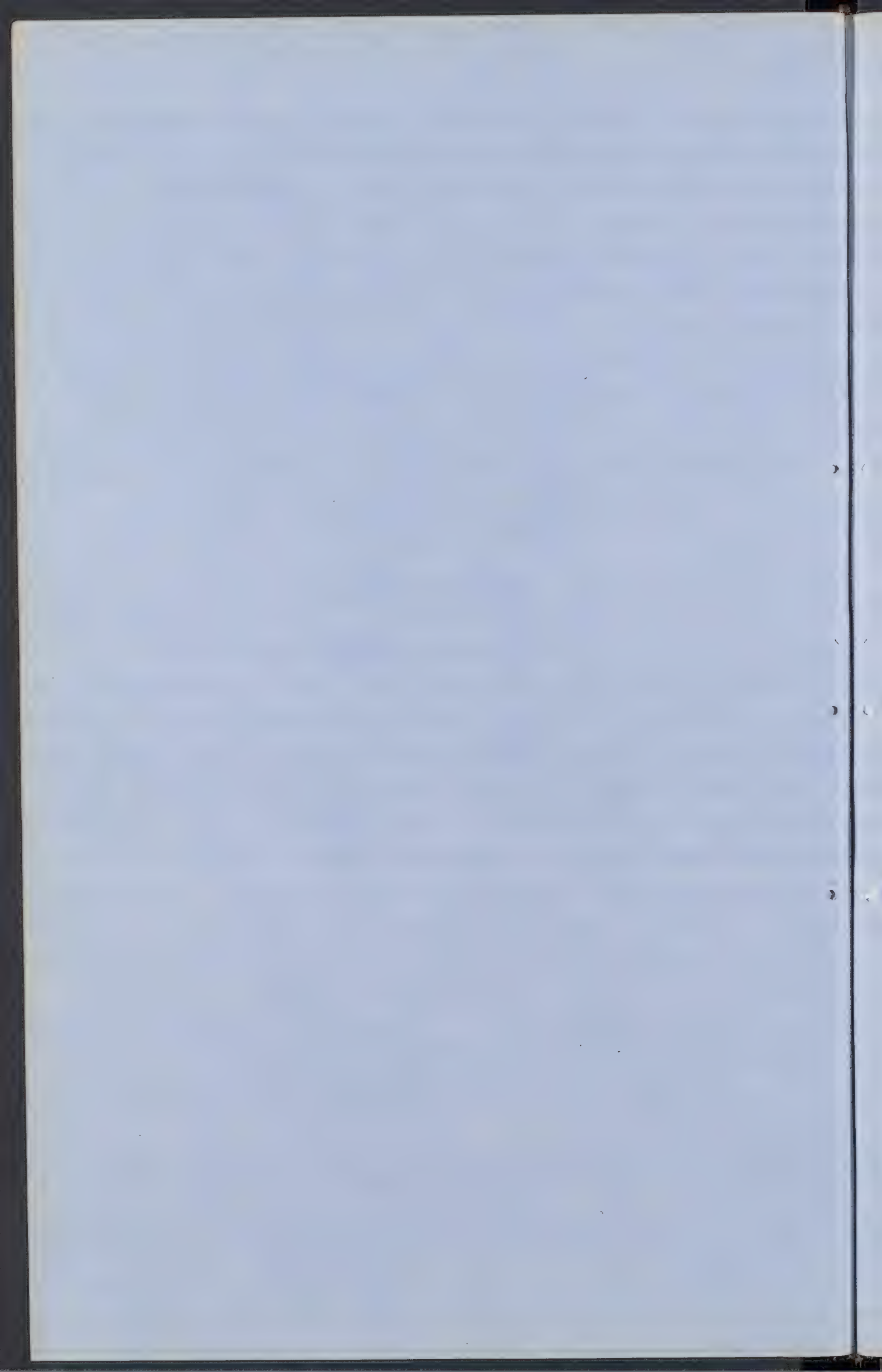
Berryman No 18d with acid, 57° 45 N 21° 19 W 1590 Fath

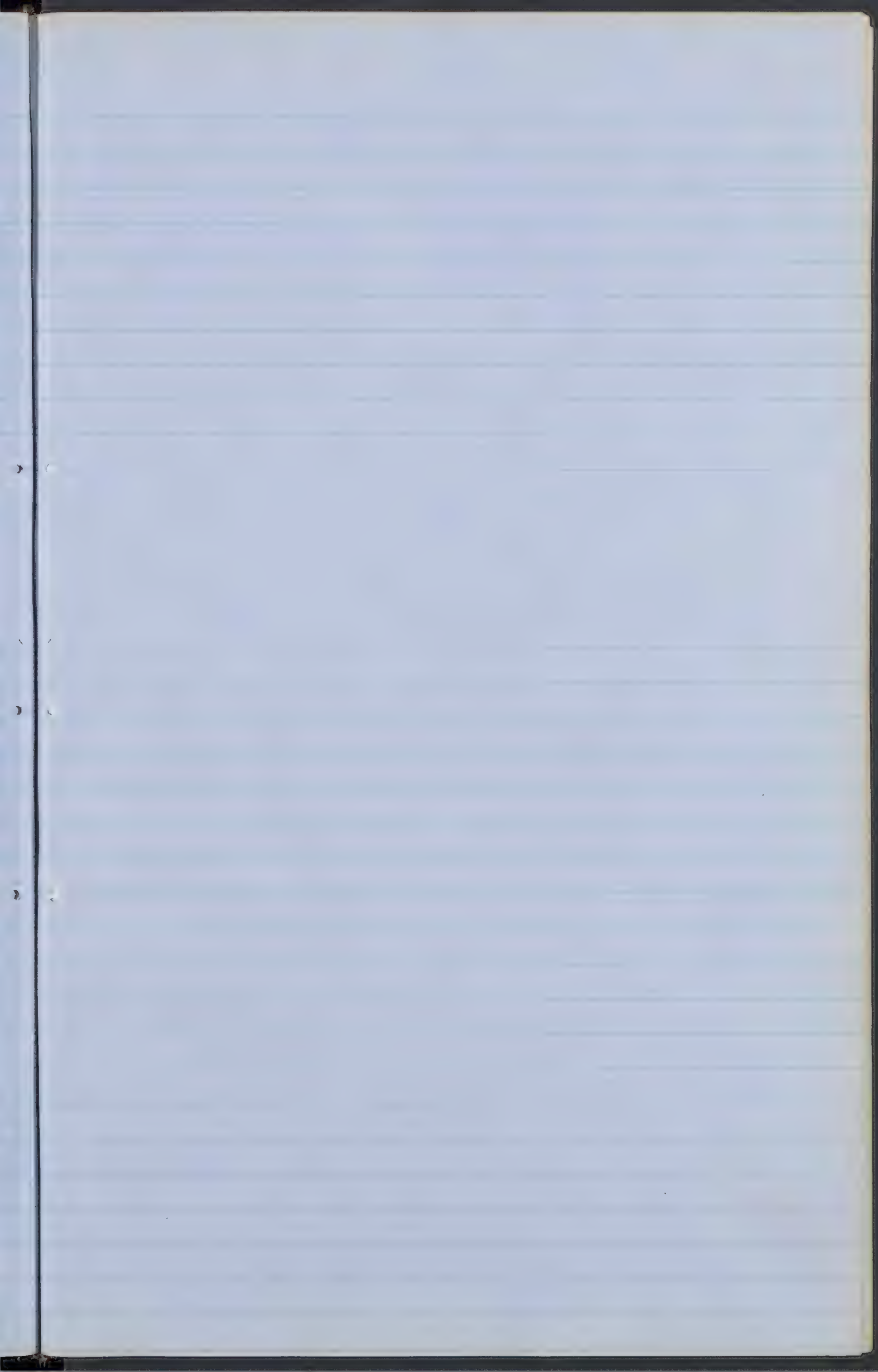
2 Transp. Crystals with small black ones	41 1/4
Group of black opaque crystals	73 3/4
Transp. crystals E. of black mass	61 3/4
Pumice	75
Volcanic glass with embedded crystals	61
Pumice	75 1/2
"	60 3/4
"	68 1/2
"	58 1/2
"	77 1/4
"	59
"	70
"	50 1/4
"	67 1/4
"	47 1/2
"	74 1/2
Flustrella concentrica?	45 3/4
Transp mass with embedded crystals	62 1/2
Light cold obsidian: S of black spot	38 1/2
Transp mass with embedded crystals good	83 1/2
Irregular spinose spongolite	34 3/4
	143 3/4
	135 3/4
	91 1/4
	58 1/2
	79 1/4

No. 712

Berryman No 18c Continued

Halicalyptus?	68 3/4
Loscinodiscus lineatus between last two	88 1/4
"	"
Loscinodiscus oculus iridis	64
Flustrella	24 3/4
Loomitella atlantica with 2 spines	66 1/4
Encyrtidium	80 1/8
Loscinodiscus	65 3/4
Stylodictya	77 1/2
Enodia gibba B others in - not recorded	64 1/4
Loscinodiscus	60 1/4
Encyrtidium	64 3/4
Dactyophimus	93
Histiastrium triiceps	64
Encyrtidium	76
Halicyrca	64
Orthochopalum spongiosum B.	70 1/4
Loscinodiscus lineatus	64
Spongodiscus	69 1/4
	64
	62 1/2
	60 1/4
	62 3/4
	75 1/4
	62 3/4
	84
	63 1/4
	92 1/2
	61 3/4
	64 1/4
	56
	92 3/4
	58 3/4
	76
	58 1/4
	69 3/4





No. 714

Berryman No 19 a natural date

57° 50' N

20° 12' W

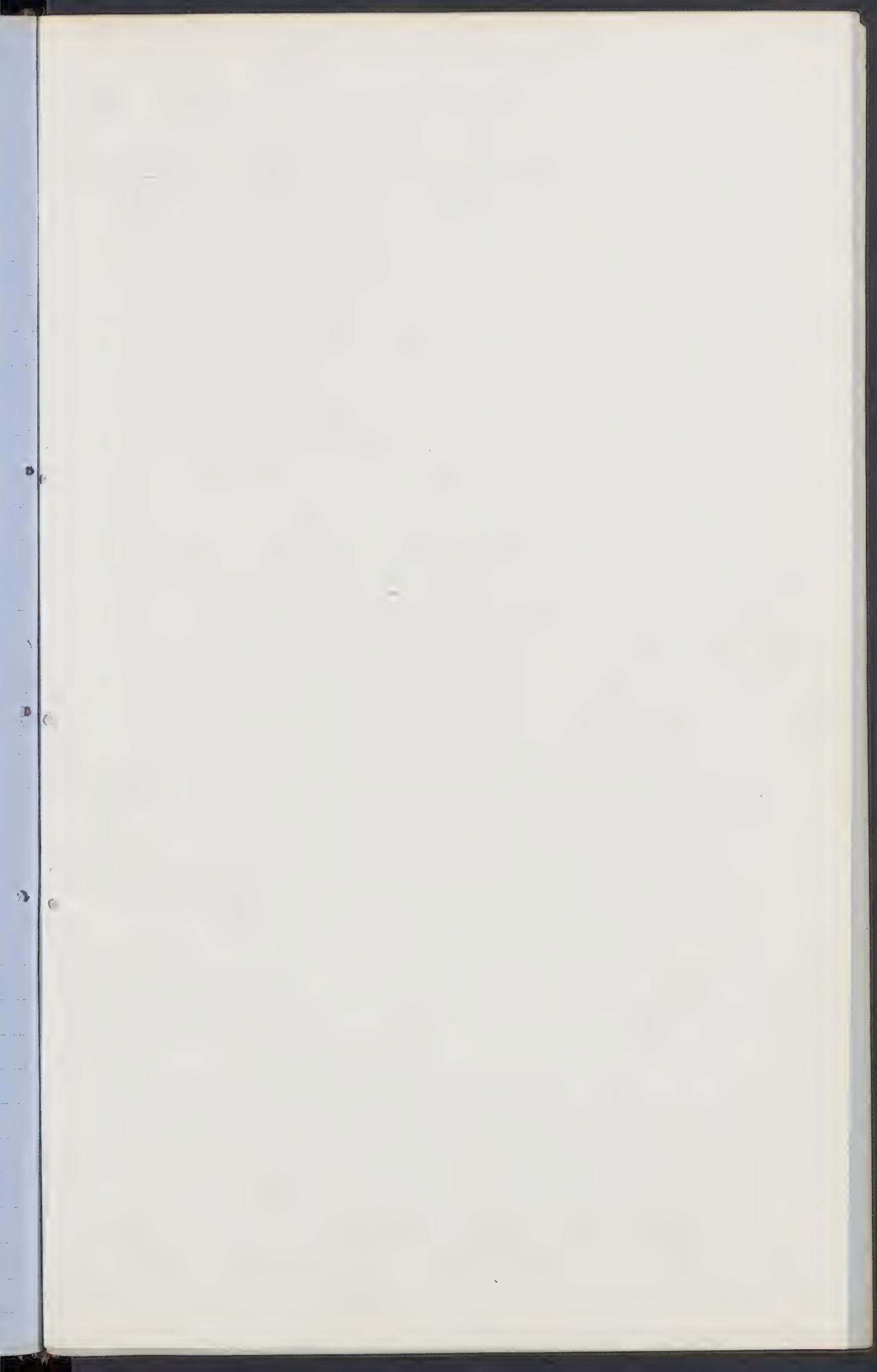
1573

No. 715

Berryman No 19 b, light parts

"

"



Berryman No. 19c in the acid light part 51.50 N. 20.12' 18

<i>Halionna</i>	51 3/4
?	29
	55 3/4
	29 1/4
<i>Peristephania Eulycha</i> Ehr.?	55 1/4
(<i>Coscinodiscus</i> ?)	68 1/8
<i>Encyrtidium</i> with a deformed	53 1/2
	75 1/4
<i>Lithomelissa</i> ? <i>calva</i> ? B	53
	28 3/4
<i>Codium marimum</i> B. N.E. of last	"
<i>Padoeyrtis Berrymanni</i> oblique, broken but good,	52 3/4
	68 1/2
<i>Halicalyptra</i> ?	52 1/2
	24 3/4
<i>Halionna opposita</i> B.	51 3/4
	79
<i>Dictyochoa</i> 2 specimens	51 1/2
	80 1/2
<i>Actiniscus</i> ? near last + S. of large yellow spot	"
<i>Halionna</i>	51
	71
<i>Erodia gibba</i> fine one	48 3/4
<i>Actiniscus</i> near lower end of last	26
	"
<i>Halionna valida</i> B.	44 3/4
<i>Slytodictya</i> } <i>concentrica</i> ?	27 3/4
<i>Flustrilla</i> ? }	48
	79
<i>Encyrtidium auritum</i> ?	44 3/4
<i>Cosmitella Atlantica</i> E. of last	40 1/3
	"
<i>Ceratospyrus</i> new?	46
	61 1/4
<i>Halionna</i>	44
<i>Encyrtidium lineatum</i> ? Ehr. }	24
" <i>impliatum</i> B. }	44
	68
<i>Coscinodiscus</i>	43
	88 1/4
<i>Dictyophimus</i> N.E. of last top view good	"
<i>Codium marimum</i> B.	41
	71 3/4
Fragment of a new <i>Polycystin</i>	40
Forms seen but not recorded	71 1/2
<i>Dictyochoa fibularis</i> + <i>Cosmitella clathrata</i> B. profunda	"
<i>Rhizosolenia</i>	40
<i>Histristrum triiceps</i> B. good one	66 39 3/4
38/79 <i>Encyrtidium paradoxum</i> B. new	85
	38 1/2
	78 3/4
<i>Padoeyrtis Berrymanni</i> B	38
	88
<i>Spongodiscus leucus</i> B	"

No. 716

Berryman No 19c with acid - kept part . . . 57° 50' N 20° 12' W 1595

Frustrella concentrica

52

Dictyophimus new?

73 1/2

Spongodiscus ellipticus B (Common)

90 3/4

Encyrtidium elongatum? B

82 3/4

Enodia gibba B large

69 3/4

Coscinodiscus

77

" *lineatus* Ehr. W. of last }
" *lineatus* Ehr. N.E. of "

62 3/4

79 1/4

68

74

64 1/2

185 1/4

Leosphaeria?

Rhizosolenia new?

66 1/2

Halicalyptea Pelasus bit of rim W of last

84 3/4

Bacteriastrium central portion S.E. of *Rhizosolenia*

"

Actiniscus S of *Frustrella* W of a ring

"

Halimma 2 species

66 1/2

Rhizosolenia near coarse net work

83

Encyrtidium elongatum? B

66 1/2

Halimma opposita B

79 1/2

65 1/2 *Dictyocysta* B new drawn

81 1/2 *Cornutella* *Fiscella*

66

Coadium tenuistriatum B }
Actiniscus S.W. of last

78 1/4

Synedra between a *Spongodiscus* & *Enodia*

66

Cornutella clabrata (B profunda Ehr.)

73 3/4

Cornutella Atlantica B

65

Frustrella concentrica

90 1/2

Halicalyptea?

65 1/2

Halicalyptea? or *Dictyocysta*?

82

Encyrtidium compressum? B

65 1/2

Encyrtidium elongatum B

69

Dictyocysta *Manuji* B small not to be drawn

65 1/4

Singular body with 2 horns, fragment?

67 1/4

Bacteriastrium with rays touching concave side of a shield

64 3/4

Enodia gibba B large one

76 1/2

Dictyocysta? *Manuji*? touching last }

64 3/4

Podoecyrtis Berrymanii

77 1/2

Dictyocysta deformed

65 1/4

" or *Halicalyptea*

79 1/2

Coadium marinum B

64

86

63

87

65 3/4

77 3/4

63

81 1/2

60 1/2

89 1/4

65 1/2

88 1/2

60 3/4

64

59

70 1/2

58 1/4

68 1/2

58 1/4

61 1/4

56 3/4

80 1/2

No. 717

Berryman No 19 d with acid, heavy part . . . 51° 50 N. 20° 12 W 1843

<i>Spongodiscus manubriatus</i> B	39
	<u>78 1/4</u>
<i>Coscinodiscus</i> good one	73
	<u>76 1/4</u>
<i>Hyalothidius</i> broken	58 3/4
	<u>75</u>
<i>Lithobotrys</i>	55 1/2
	<u>73 1/2</u>
<i>Dictyophimus</i> new?	52
	<u>61 1/2</u>
<i>Halosomma</i>	50
	<u>73</u>
<i>Coscinodiscus</i>	44
	<u>61 1/2</u>
<i>Encyrtidium elongatum</i> B	46 1/2
	<u>73 1/2</u>
<i>Spongodiscus manubriatus</i> B	44 1/4
	<u>77 1/4</u>
Volcanic glass? with embedded strata	44 1/4
	<u>76 1/2</u>
<i>Encyrtidium acutum</i> ? Ehr.	43
	<u>67</u>
<i>Flustrella concentrica</i> ? Ehr.	42 3/4
	<u>61 1/2</u>
<i>Carpocanium fragum</i> B	41
	<u>71 1/2</u>
<i>Sponglobus latus</i> B	
<i>Orthorhopalum spongiosum</i> B	34
	<u>67</u>
<i>Carpocanium fragum</i>	33 3/4
	<u>72 1/2</u>
<i>Halosomma</i>	34
	<u>76 1/2</u>
<i>Encyrtidium compressum</i> ? B	"

No. 718

Berryman No 20 a. natural state, $52^{\circ} 01' N$ $17^{\circ} 06' W$

No. 719

Berryman No 20 b, light part.

" "

No. 720

Berryman No 20 c with acid light fast

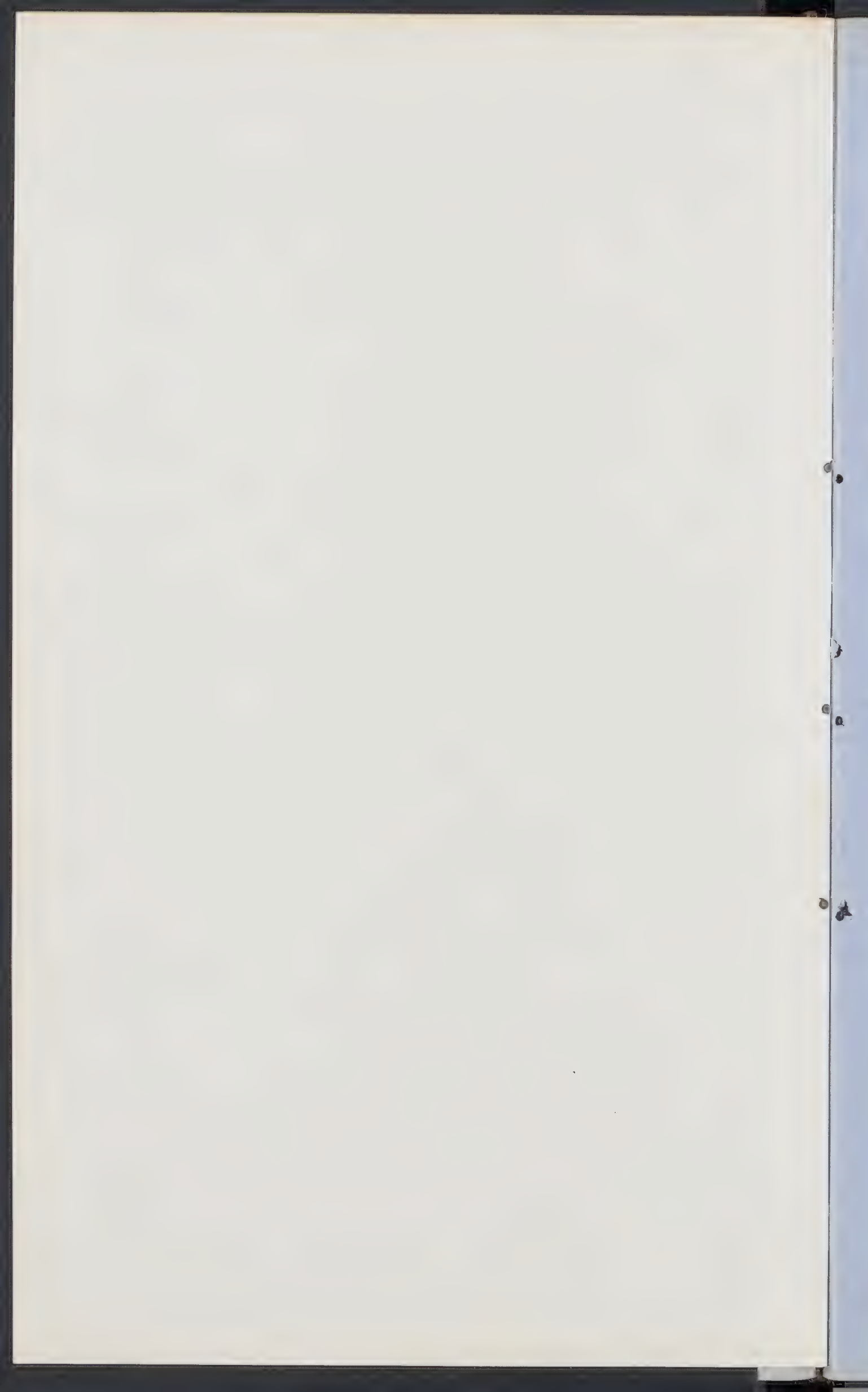
<i>Flustrellula concentrica</i> touching a <i>Podocystis</i>	61 69 ^{3/4}
<i>Halionomma valida</i> ?	69 61 ^{1/4}
<i>Coronella clathrata</i> & <i>profunda</i>	66 ^{1/2} 66 ^{1/2}
<i>Coscinodiscus</i> large cells	65 ^{3/4} 66
<i>Spongosphaeria laxus</i>	64 66
<i>Podocystis</i>	65 ^{1/2} 67 ^{1/2}
<i>Orthorhopalum spinosum</i> B. S. of last	"
<i>Dictyocysta</i>	61 ^{3/4} 68 ^{1/4}
<i>Encyrtidium lineatum</i> ? 2 specimens	61 ^{1/4} 64
<i>Halionomma opposita</i> B. 1 spine short	61 67 ^{1/2}
" " "	61 ^{1/4} 71
<i>Spongodiscus manubriatus</i> B. good one	60 ^{3/4} 67 ^{1/2}
" " "	61 65 ^{3/4}
" <i>ellipticus</i> B	61 60 ^{1/4}
<i>Coronella Cicutantica</i> B. good one	60 ^{1/4} 67
<i>Halicyrpa serosa</i> B.	60 68
<i>Coscinodiscus</i>	58 ^{1/4} 61 ^{3/4}
<i>Halicalyptus</i> ? S.W. of last	"
<i>Dictyocysta</i> ?	"
<i>Halionomma opposita</i> , broken showing nucleus	59 ^{1/2} 61 ^{1/4}
<i>Encyrtidium Tritonis</i> B. frags	57 ^{3/4} 64
^{57^{3/4}} / _{64^{1/4}} <i>Codium ornatum</i> B. new	59 ^{1/2} 64 ^{1/2}
<i>Halionomma</i> , outside broken? touching last in S.E.	"
<i>Dictyosphaerium</i> end view	57 ^{3/4} 66 ^{1/2}
<i>Halionomma</i>	57 71
<i>Podocystis</i> new species? var of <i>P. Berrymanii</i> - drawn	56 ^{3/4} 61 ^{1/4}
<i>Prionularia peregrina</i>	56 ^{3/4} 75
<i>Coscinodiscus lineatus</i> Ehr.	56 75 ^{3/4}
" <i>oculus iridis</i>	55 ^{3/4} 67 ^{3/4}
<i>Pterocodum Tholus</i> S.W. of last.	"
<i>Encyrtidium</i> or <i>Podocystis</i> ? broken	55 ^{1/4} 64
<i>Codium marinum</i>	55 ^{3/4} 60 ^{1/2}
<i>Halionomma</i>	55 ^{3/4} 71 ^{1/2}
<i>Leurosphaeria</i>	55 ^{1/2} 76 ^{1/4}

No. 720 (Continued)

Berryman No 20 c with acid light part

<i>Eucyrtidium cribratum</i> ? B.	$\frac{54\frac{1}{2}}{71\frac{1}{2}}$
<i>Lichobotrys</i>	$\frac{54\frac{1}{2}}{69\frac{1}{2}}$
<i>Eucyrtidium annitum</i> ? Ehr.	$\frac{54\frac{1}{2}}{71\frac{1}{2}}$
<i>Podocyrtes Berrymanii</i> Lamm good	$\frac{52\frac{1}{2}}{63\frac{3}{4}}$
<i>Laclium marinum</i> D	$\frac{51\frac{1}{2}}{64\frac{1}{2}}$
<i>Coscinodiscus excentricus</i>	$\frac{51\frac{1}{2}}{73}$
<i>Enodia gibba</i> D	$\frac{51}{64\frac{3}{4}}$
<i>Halicalyptea</i> ? } " } <i>Dityocysta</i> ? }	$\frac{51\frac{1}{2}}{69\frac{1}{4}}$
<i>Fluotrella concentrica</i> ? Ehr.	$\frac{48\frac{3}{4}}{70}$
<i>Eucyrtidium</i> ? nearly touching last on N.E.	"
<i>Eucyrtidium</i>	$\frac{44}{61\frac{1}{4}}$
<i>Cornutella atlantica</i> S.W. of last, good one with spines	"
<i>Halionema</i> 2 specimens	$\frac{45\frac{3}{4}}{64}$
<i>Eucyrtidium</i> ? S of last	"
<i>Eucyrtidium cribratum</i>	$\frac{45\frac{3}{4}}{65\frac{1}{2}}$
<i>Coscinodiscus</i> good one	$\frac{44\frac{3}{4}}{70\frac{1}{2}}$
<i>Peratospyris</i> ? " <i>Plectospyris</i> ?	$\frac{44\frac{1}{2}}{61\frac{1}{8}}$
<i>Coscinodiscus</i>	$\frac{41}{66\frac{1}{2}}$
<i>Orthochopalum spongiosum</i> ? B	$\frac{41}{70}$

Seen but not recorded
fragts. of *Halicalyptea* Petasens



No. 21

Beryman No 20 d natural state . 52° 01' N. 17° 06' W. 1905 Feb

Berryman No 20. d' with acids, lowest parts. 52° 01' N 17,06' W 1905 Feb

Spongyglobus lusus B	46 3/4
Porrace	74 3/4
Encyrtidium lineatum? granulated	53 3/4
Encyrtidium	67
Podocytis Berrymanii	153
? Radium? new drawn touching a small case, eccentricus	74 3/4
	52 1/2
	64 3/4
	51 1/2
	73
	51 1/4
	75 1/4
Halimma lusus B	50 3/4
Podocytis Negles broken	48 1/2
Obsidian?	68 1/2
Encyrtidium	44 1/2
Halimma opposita B.	69
Porrace	14 3/4
Spongeolite	67
Radium tenuistriata? B	44
Encyrtidium	68 1/2
	14 3/4
	71 3/4
	42
	74 1/2
	14 2/3
	73
	41
	72 1/4

No. 723

Berryman No 20 c with acid

32° 01' N

17° 06' W

1905 Feb

No. 724

- Berryman No 20 c' with acid lightest tint

"

"

"

No. 725

Berryman No 21 a natural date

52° 05' N. 16° 05' W. 1518 Fath.

No. 7256
Newman No 21 b.

with acid leaved part ... 52° 05' N 16° 05' W

1578 Fath

<i>Spongodiscus manubriatus</i> B.	56 ³ / ₄
<i>Coscinodiscus</i>	73
	62 ¹ / ₄
<i>Codium marinum</i>	41 ³ / ₄
	160 ¹ / ₄
<i>Halimnema</i>	71
	58 ¹ / ₂
<i>Spongodiscus ellipticus</i> ?	40 ³ / ₄
	155 ³ / ₄
<i>Pinnice</i>	72 ¹ / ₂
	155 ¹ / ₄
<i>Cornutella Atlantica</i>	40 ³ / ₄
	155 ¹ / ₂
<i>Carposcanium</i>	68 ¹ / ₄
	55
<i>Finstrella concentrica</i> ?	59 ³ / ₄
	65 ³ / ₄
<i>Enodina gibba</i>	65 ¹ / ₄
	51 ¹ / ₄
<i>Halimnema</i> small	77
	59
<i>Cornutella fuscilla</i> good one	72 ¹ / ₄
	149 ¹ / ₂
<i>Halicalyptra</i> ?	64 ¹ / ₄
	149 ¹ / ₂
<i>Leucosphaeria</i> ? uniformis B new	72 ¹ / ₂
	147 ³ / ₄
<i>Coscinodiscus borealis</i> ? B	65
	147
<i>Leucosphaeria</i> like pollen	75 ¹ / ₄
	143 ³ / ₄
	72

No. 727

Bermyan No 21 c light parts, natural state

52° 05' N 16° 05' W

1518 Fath

No. 438

Berryman No 21 d. with acid, heavy part 52° 05' N. 16.05' 15787

Badium marinum! B coarse striae about 12 seen $\frac{46}{26\frac{1}{4}}$

Dictyophimus? $\frac{46}{23\frac{3}{4}}$

Halimma $\frac{46}{76\frac{3}{4}}$

Halimma $\frac{46}{71}$

Orchostobulum spongiolum B } $\frac{46}{75\frac{1}{4}}$
+ *Halicalyptia*? *nanayi* }

Halimma $\frac{46}{78}$

Forms seen but not recorded.

Carmitella profunda, Atlantic.

Spongodiscus ellipticus

Histiastrum triceps

Enodia gibba, common

Coc. excentricus

Encyrtidium

Seratospyris parva? B. $\frac{43\frac{3}{4}}{74\frac{1}{4}}$

Carpo caninum? $\frac{44}{83\frac{3}{4}}$

Halimma opposita B $\frac{43}{75\frac{1}{4}}$

Plectrospyrus? $\frac{42\frac{1}{2}}{74\frac{3}{4}}$

$\frac{41}{66\frac{1}{2}}$ *Podocypis*?? drawn like No 14 same slide

Coarse net work of sponge? $\frac{39\frac{1}{2}}{77}$

? $\frac{39}{66}$

Diploneis didyma Ehr. $\frac{39}{75}$

Berryman No 21 d. with acid, Leary part 52° 05' N. 16° 05' W 1518 Fath

1. <i>Filustrilla</i>		$\frac{34}{71}$
2. Crystal of ? Small greenish		$\frac{65\frac{1}{2}}{74}$
3. <i>Cornutella profunda</i>		$\frac{69\frac{3}{4}}{71\frac{3}{4}}$
4. <i>Loosinodiscus</i>		$\frac{64}{62\frac{1}{4}}$
5. <i>Cornutella Atlantica</i> B		$\frac{63\frac{1}{4}}{61\frac{1}{4}}$
6. <i>Pterocodon</i> ? new		$\frac{61\frac{1}{2}}{78}$
7. <i>Spongosphaeria laxa</i> B		$\frac{61\frac{1}{4}}{70\frac{1}{2}}$
8. <i>Radium</i> ? new? faint SW of black spot		$\frac{60\frac{1}{2}}{72\frac{1}{2}}$
9. <i>Encyrtidium</i> new? with contracted orifices		$\frac{61\frac{1}{4}}{74\frac{1}{4}}$
10. <i>Cenosphaeria</i>		$\frac{58\frac{3}{4}}{66\frac{1}{2}}$
11. <i>Radium tenuistriata</i> B. fine striae		$\frac{58}{63\frac{1}{4}}$
12. <i>Loosinodiscus</i>		$\frac{54\frac{1}{4}}{70\frac{3}{4}}$
13. Crystal Small greenish		$\frac{55\frac{3}{4}}{60}$
14. <i>Podocyrtes</i> ? new drawn Compare with a supposed <i>Codium</i>		$\frac{55\frac{1}{2}}{27\frac{1}{2}}$
15. <i>Podocyrtes Berrymani</i>		$\frac{55\frac{1}{2}}{25\frac{1}{4}}$
<i>Orthorhopalium spongiolum</i> B		$\frac{55\frac{1}{2}}{70\frac{1}{2}}$
<i>Encyrtidium</i>		$\frac{54\frac{3}{4}}{61}$
Spongeolite		$\frac{54\frac{3}{4}}{24}$
<i>Halimma opposita</i>		$\frac{54\frac{3}{4}}{78}$
<i>Spongodiscus ornambriatus</i> B. good one		$\frac{54}{80\frac{1}{4}}$
<i>Cornutella Atlantica</i> new last		$\frac{54\frac{1}{4}}{28\frac{3}{4}}$
<i>Halimma</i>		$\frac{53}{80\frac{3}{4}}$
<i>Cornutella Liscella</i> B		$\frac{53\frac{3}{4}}{81}$
<i>Ceratospyrus</i> new? N.E. of <i>Halimma</i>		$\frac{53\frac{1}{2}}{81\frac{1}{4}}$
<i>Halicyrta</i>		$\frac{52\frac{3}{4}}{75\frac{1}{2}}$
<i>Cornutella Atlantica</i> B		$\frac{53}{71\frac{1}{4}}$
Spongeolite whole (meeting last)		
<i>Podocyrtes Berrymani</i>		$\frac{52\frac{3}{4}}{80\frac{1}{2}}$
Spongeolite whole		$\frac{52\frac{1}{2}}{81\frac{1}{4}}$
<i>Halimma</i>		$\frac{52}{73\frac{1}{4}}$
<i>Halimma</i> dif. species		$\frac{52}{71\frac{1}{2}}$
<i>Podocyrtes Berrymani</i>		$\frac{51\frac{3}{4}}{62\frac{1}{2}}$
<i>Cenosphaeria</i> like pollen		$\frac{52}{62\frac{3}{4}}$
<i>Halicalyptra</i> ? } <i>Mauryi</i>		$\frac{48\frac{3}{4}}{81\frac{1}{4}}$
<i>Dactyocysta</i> }		
<i>Euodia gibba</i> B		$\frac{48\frac{1}{2}}{70\frac{1}{2}}$

No. 729

Berryman No 21 e with acid light part

52° 05' N 16° 05' W 1518 Fath

No. 73a

Berryman No 21 f, with acid lightest parts

"

"

No. 751

Berryman No 22 a natural state. 52° 03' N 15° 02' W 410 Fath

No 752

Berryman No 22 b, light part natural state " "

No. 733

Berryman No 22 c with acid heaviest part 52° 03 N 15° 02 W 210 Fath

No. 734

Berryman No 22 d, with acid light part " " "

No 735

Berryman No 23 a natural state 51° 52' N 13° 16' W 410 Fath.

No. 736

Berryman No 23 b, light part " "

No. 737

Berryman No 23 c with acid, least part " "

No. 738

Berryman No 23 d with acid light part " "

No. 739

Berryman No 24. a

51° 54' N 120° 27' W 717 Fath

No. 740

Berryman No 24 b, light part

" " "

No. 741

Berryman No. 24 c with acid light part

51° ~~54'~~ N 12° 27' W

No. 742

Berryman No. 24 d with acid, heaviest part

Podocypis Heugles fine one

$\frac{114}{75}$

Nothing else worth recording

[Faint, illegible text covering the majority of the page]

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[Small mark]

[Small mark]

Record of position of objects on slides
Fossil Infusoria from California &c
A. B. F. go with the "Microscopical Collection"
Fossil Infusoria

California

First Series

Monterey, California (page 1. 620)

Infusorial Stratum

Record of Slides — Dec. 1855

~~2d Series~~

Tulare Co. p. 45 et seq.

San Luis Obispo p. 57 et seq.

Suisun Bay p. 63. et seq.

No. 743 Vol. Monterey

- 1 $\frac{44}{25\frac{1}{2}}$ *Anachnoidiscus* *capricus*
- 2 " *Eucyrtidium* *lineatum*
- 3 $\frac{45\frac{1}{2}}{85\frac{1}{2}}$ *Grammatophora*
- 4 $\frac{55}{24\frac{3}{4}}$ *Denticella*
- 5 $\frac{62}{60}$ *Eucyrtidium* *lineatum*?
- 6 $\frac{57\frac{1}{2}}{26\frac{3}{4}}$ *Triceratium*
- 7 $\frac{57}{63\frac{1}{2}}$
- 8 $\sqrt{\frac{56\frac{1}{4}}{64}}$ *Rhizosolenia*
- 9 $\frac{43\frac{1}{2}}{10}$ *Eucyrtidium*

No 744 No 2. Monterey } large mass by edge
+ top of glass

- $\frac{42}{84}$ *Radiate disc*, new
- $\frac{34\frac{2}{3}}{98}$ *Globosina*?
- $\frac{35\frac{2}{3}}{95}$ *Eucyrtidium*, touching yellow strand

No 745

62

Monterey A. lower stratum

1 $\frac{53}{62}$ *Achnodiscus japonicus?*

2 $\frac{44\frac{1}{2}}{25\frac{1}{2}}$ *Entipyle*

3 $\frac{55\frac{1}{2}}{24\frac{1}{2}}$ *Mesocena hexagma B.*

4 $\frac{37}{66\frac{3}{4}}$


5 $\frac{38}{27\frac{1}{4}}$ *Dichyocha binucula Ehr.*

$\frac{55\frac{1}{4}}{72\frac{3}{4}}$ *Pentameris?*

1
72 3/4

No. 746 Monterey B. lower stratum

1 $\frac{61\frac{1}{2}}{72\frac{1}{2}}$ *Auliscus ~~sculptus~~? castatus B.*

2 $\frac{56\frac{1}{4}}{80\frac{1}{4}}$? 

3 $\frac{48}{68\frac{3}{4}}$ *Goniathecium Odontella?*

4 $\frac{43\frac{1}{2}}{73\frac{7}{8}}$ *Cladomphalus elegans B. central portion*

No. 747

Monterey, C. lower stratum

- 1 $\frac{35\frac{1}{4}}{17\frac{1}{8}}$ *Cladomphalus elegans* B.
- 2 $\frac{64\frac{3}{8}}{74\frac{3}{4}}$ *Eucyrtidium*
- 3 $\frac{64\frac{1}{4}}{29\frac{1}{4}}$ "*... ..*"
- 4 $\frac{62}{78\frac{1}{4}}$ " " "
- 5 $\frac{49}{28\frac{3}{4}}$ *Goniatoceras Rogersii* Ehr
- 6 $\frac{40}{73\frac{1}{4}}$ *Cladomphalus elegans*

No. 748 Monterey D

No. 749

Monterey, C. lower stratum

- 1 $\frac{54}{27\frac{1}{4}}$ *Aulacodiscus bigyanus* ? B.
- 2 $\frac{66\frac{3}{4}}{69\frac{3}{8}}$ *Mesozoa alternata* B.
- 3 " *Chonetes* SW of Monterey
- 4 " *Mesozoa hexagona* B. NE " "
- 5 $\frac{63\frac{1}{2}}{68\frac{1}{2}}$ *Aulacodiscus* broken
- 6 $\frac{59}{73\frac{3}{8}}$ ✓ *Mesozoa alternata* B.
- 7 $\frac{56\frac{1}{2}}{64\frac{1}{2}}$ *Eucyrtidium*
- 8 " *Grummatophora serpentina* SE of quarry
- 9 " " " " street filled

No. 750 Monterey F. lower station

- 1 $\frac{54\frac{1}{4}}{80\frac{1}{4}}$ *Cladomphalus elegans* B. luteus
 2 $\frac{50}{77\frac{1}{2}}$ *Rhizodonia punctata* B. /
 3 $\frac{66\frac{3}{4}}{67\frac{3}{8}}$ *Cladomphalus elegans* B. "

No. 751 Monterey G. lower station

- 1 $\checkmark \frac{50\frac{3}{8}}{28}$ *Halcalypta*? *Holm* G.
 2 $\frac{69}{75\frac{3}{4}}$ *Eucyrtidium*
 3 $\frac{53\frac{7}{8}}{73\frac{1}{2}}$ *Amphitetras* *W.*? *male*
 4 $\frac{33\frac{1}{4}}{35}$ *Denticella tridentata*? *Gr.*

No. 752 Monterey H. lower station

- 1 $\frac{73}{86\frac{1}{4}}$ *Rhizodonia*? *deux* B.
 2 $\frac{70}{85\frac{3}{8}}$ *Achnanodiscus Ehrenbergii*
 3 $\frac{59}{74\frac{3}{4}}$ *Halomma fructuosa* B.
 4 $\frac{56}{62\frac{3}{8}}$ *Eucyrtidium lenticum*? *Gr.*
 5 $\frac{34}{77\frac{3}{4}}$ *Amphitetras Wilkesii* B.
 6 $\frac{63}{75\frac{3}{4}}$ *Grammatophora*
 7 $\frac{43\frac{1}{4}}{30}$ *Eucyrtidium* *not to be known*
 8 $\frac{41}{27\frac{1}{4}}$ *Achnanodiscus*
 9 $\frac{40\frac{3}{4}}{40\frac{1}{2}}$ *ammonatis* B. *side near*
 10 $\frac{34\frac{7}{8}}{71\frac{1}{2}}$ *Phubdomama adriatica*?
 11 $\frac{32\frac{1}{2}}{25\frac{1}{3}}$ *Ectopygia* *new?*
 12 $\frac{32}{24\frac{1}{2}}$ *Actiniscus* *new? N. E. of Achnanodiscus*

No. 753 Monterey, lower stratum

- 1 $\frac{65}{74\frac{1}{4}}$ *Arachnoidiscus Ehrenbergii*
- 2 $\frac{37}{80\frac{1}{4}}$ *Podocryptis?* ... with a base
- 3 $\frac{56}{81\frac{3}{4}}$
- 4 $\frac{52\frac{1}{8}}{22}$ *Xanthospyxis serrata* B.
- 5 $\frac{51\frac{1}{8}}{64\frac{1}{4}}$ *Cladomphalus elegans* B. , central portion
- 6 $\frac{51}{83\frac{1}{4}}$ " " " "
- 7 $\frac{45\frac{1}{4}}{81\frac{1}{3}}$ *Dictyochea*

No. 754 Monterey, J. lower stratum

- 1 $\frac{50\frac{1}{4}}{68\frac{1}{8}}$ *Xanthospyxis serrata* B.
- 2 $\frac{38\frac{1}{4}}{62\frac{1}{8}}$ *Cladomphalus elegans* B.
- 3
- 4 $\frac{39\frac{1}{2}}{66\frac{1}{4}}$ *Auliscus ~~marginifera~~ caelatis* B.
- 5 $\frac{65\frac{1}{2}}{75\frac{1}{4}}$ *~~Rhynchonella~~ Denticella tridentata?* B.
- 6 $\frac{52\frac{1}{8}}{60\frac{1}{4}}$ *Polyzosteria* ... with a base
- 7 $\frac{35\frac{1}{4}}{77}$

No. 755 Monterey K. Linn. L. Linn.

1	$\frac{72\frac{1}{2}}{75\frac{3}{8}}$	<i>Hydrodiscus</i>	luteo-roseus
2	$\frac{52\frac{1}{2}}{58}$	<i>Arachnoidiscus</i>	luteus
3	$\frac{35\frac{1}{4}}{23\frac{3}{8}}$	<i>Triceratium</i>	"
4	$\frac{73}{67}$	<i>Kantropyxis serrata</i> B.	oblique-roseus
5	$\frac{60}{71\frac{1}{2}}$	<i>Denticella tridentata</i> ? B.	vide new
6	$\frac{53\frac{1}{4}}{74\frac{1}{8}}$	<i>Podocorythos</i> ?	
7	$\frac{51\frac{1}{2}}{26\frac{1}{4}}$	<i>Eucyrtidium</i>	
8	$\frac{50\frac{1}{4}}{21}$	"	
9	$\frac{48\frac{1}{2}}{65\frac{1}{4}}$	<i>Spongobiscus densus</i> B.	
10	$\frac{47}{65\frac{1}{2}}$	<i>Gallinella iridescens</i>	
11	$\frac{44\frac{1}{2}}{79}$	<i>Oncodiscus aculeatus</i> B.	
12	$\frac{41\frac{3}{4}}{65}$	<i>Loxoneis</i>	
13	$\frac{29\frac{1}{2}}{27\frac{3}{4}}$	<i>Heliodiscus radiatus</i>	
14	$\frac{27\frac{1}{2}}{64\frac{1}{4}}$		

No. 756 Monterey, L.

- 40 *Eucyrtidium virgiculatum* *small*
 $\frac{72\frac{1}{4}}{72\frac{1}{4}}$
 70 $\frac{70\frac{1}{4}}{83}$ *Scolopliidium* *in a crowd SW of a large beach apartment*
 40 $\frac{40\frac{1}{4}}{72\frac{1}{4}}$ *Eucyrtidium virgiculatum* ? *B*

No. 757 Monterey M.

- 1 $\frac{72}{84\frac{1}{4}}$ *Sirella*
 2 $\frac{71\frac{1}{4}}{28\frac{3}{4}}$ *Sirella*
 3 $\frac{68\frac{1}{2}}{74\frac{1}{4}}$ *Anolisus granulatus* B. *small*
 4 $\frac{69\frac{1}{4}}{64\frac{1}{4}}$ *Xanthopygia* ?
 5 $\frac{67\frac{1}{2}}{82\frac{1}{4}}$ *Chadomphalus elegans* B.
 6 $\frac{65\frac{1}{2}}{77\frac{1}{4}}$ *Anolisus scapatus* B.
 7 $\frac{62}{73\frac{3}{8}}$ *Mesopoda albivitta* B. *good one*
 8 $\frac{61}{78\frac{1}{8}}$ *Entopyga* *broken*
 9 ~~$\frac{63\frac{1}{2}}{78\frac{1}{2}}$~~ *small and unidentifiable*
 10 $\frac{55\frac{7}{8}}{80}$ *Achnocyclis* *pretty one*
 11 $\frac{54}{71\frac{1}{2}}$ *Mesopoda*
 12 $\frac{52}{23\frac{1}{4}}$ *Entopyga*
 13 $\frac{48\frac{3}{4}}{68\frac{3}{4}}$ *Denticella bidentata* Em. *1st one*
 14 $\frac{49\frac{1}{8}}{69\frac{3}{4}}$ *Anolisus quadrupes* B. *near a corner of a small*
 15 $\frac{44}{61\frac{1}{2}}$ *Eupodisus* ? *2 feet*
 16 $\frac{26\frac{1}{4}}{80\frac{1}{4}}$ *Anolisus*

No. 758 Monterey N.

1	$\frac{74}{27\frac{1}{2}}$	<i>Euprodiscus</i> ?	2 feet
2	$\frac{72}{27\frac{1}{4}}$	<i>Adomycelus</i>	
3	$\frac{70\frac{3}{4}}{22}$	<i>Dietycha trisacantha</i> Ehr	
4	$\frac{68\frac{7}{8}}{50\frac{3}{4}}$	<i>Pezidicula</i>	
5	$\frac{63\frac{1}{4}}{49\frac{1}{8}}$	<i>Dietyphimus</i> , broken but good	
6	"	head of above?; close by	
7	$\frac{42}{64\frac{3}{4}}$	<i>Cladomphalus elegans</i> B.	
8	$\frac{40\frac{7}{8}}{57\frac{1}{2}}$	<i>Grammatophora tropica</i> Ehr	large one, side near
9	$\frac{41\frac{1}{4}}{87}$	<i>Stenoptera aspera</i> Ehr	

No. 759 Monterey 6

1	$\frac{68}{84\frac{3}{4}}$	<i>Cladomphalus elegans</i> B.	15	$\frac{45\frac{1}{2}}{65\frac{7}{8}}$	<i>Denticella tridentata</i> ? Ehr	alga near	
2	$\frac{73}{58}$	? \square small	17	"	<i>Saliscus</i>	touching the above	
3	$\frac{71}{64}$	<i>Comuletha clathrata</i> , Ehr	good one	18	$\frac{46}{31\frac{3}{4}}$	<i>Denticella tridentata</i> Ehr	top near
4	$\frac{68\frac{1}{2}}{67\frac{1}{2}}$	<i>Aulacodiscus</i>	two broken	19	$\frac{39}{93}$	<i>Saccus Argus</i> B.	
5	$\frac{69\frac{1}{8}}{56}$	<i>Entopyla</i>	short short one	20	$\frac{38\frac{7}{8}}{63\frac{1}{2}}$	<i>Kanthopyxis serrata</i> B.	
6	$\frac{56\frac{1}{2}}{70\frac{7}{8}}$	<i>Arachnodiscus Ehrenbergii</i> B.		21	$\frac{37\frac{7}{8}}{80\frac{1}{2}}$	<i>Eucyrtidium lineatum</i> ? Ehr	β tumidum
7	"	frickly disc		22	$\frac{34\frac{1}{3}}{64\frac{1}{4}}$	<i>Entopyla</i>	alga near
8	$\frac{57}{30\frac{1}{4}}$	<i>Cladomphalus elegans</i> B.		23	$\frac{33\frac{2}{3}}{27\frac{1}{8}}$	<i>Denticella tridentata</i> Ehr	side near
9	"	<i>Systephania</i>	just above the last shiny fins well	24	$\frac{31\frac{1}{2}}{93\frac{1}{8}}$	<i>Eucyrtidium</i>	
10	$\frac{57\frac{3}{4}}{75\frac{1}{4}}$	<i>Denticella tridentata</i> ? Ehr	with two more cells.	25	$\frac{30\frac{1}{8}}{85\frac{1}{2}}$	<i>Diploniscus (Oralus)</i> Ehr.	
11	$\frac{52}{74\frac{1}{4}}$	<i>Podocertes</i>	good one, broken	26	$\frac{27}{94\frac{3}{4}}$	<i>Arachnodiscus Ehrenbergii</i> B.	small
12	$\frac{50\frac{1}{2}}{61\frac{1}{2}}$	<i>Amphiletras Wilkesii</i> H. & B.					
13	$\frac{70\frac{3}{4}}{43\frac{1}{2}}$	<i>Kanthopyxis serrata</i> B.	shiny central fins				
14	$\frac{63\frac{1}{8}}{22\frac{1}{2}}$	<i>Cladomphalus elegans</i> B.	cuticle nearly perfect				
15	"	<i>Bredia? papusilla</i>	just above the last, on N. W.				

No. 760 Monterey P.

H. Allen

- | | | | |
|----|---------------------------------------|--|---------------------------|
| 1 | $\frac{70}{74}$ | <i>Denticella</i> <i>tridentata</i> ? the good one | |
| 2 | $\frac{42\frac{1}{2}}{74\frac{3}{4}}$ | <i>Amphiletras</i> <i>Wilkesii</i> B.S.X | |
| 3 | $\frac{40\frac{1}{2}}{23}$ | " | ? |
| 4 | $\frac{44\frac{1}{2}}{29\frac{1}{3}}$ | <i>Xanthopygia</i> | oligacera |
| 5 | $\frac{64}{67\frac{1}{2}}$ | | punctate disc |
| 6 | $\frac{44}{61\frac{1}{4}}$ | <i>Arachnoidiscus</i> <i>Thunbergii</i> | |
| 7 | $\frac{35\frac{1}{4}}{65\frac{1}{4}}$ | <i>Alisondenia</i> <i>punctata</i> B. | |
| 8 | $\frac{35}{80\frac{7}{8}}$ | <i>Eucyrtidium</i> | |
| 9 | $\frac{36}{70\frac{7}{8}}$ | <i>Entopygia</i> | part on north middle lobe |
| 10 | $\frac{34\frac{1}{2}}{60\frac{1}{2}}$ | <i>Gladionophalus</i> <i>elegans</i> B. | |

No. 761 Monterey Q. ~~in~~ large mass

- 1 $\frac{64\frac{3}{4}}{72\frac{7}{8}}$ *Agalodesmus* with large umbones
- 2 $\frac{62\frac{1}{2}}{67\frac{7}{8}}$ *Dentatella?* small
- 3 $\frac{61\frac{1}{2}}{27\frac{1}{2}}$ *Aulis cis* small, dist to a *Pisanothis*
- 4 $\frac{47}{61}$ *Chaetoceros?* *Handworfome* *Handworfome*
- 5 $\frac{46}{23\frac{1}{2}}$
- 6 $\frac{45}{67\frac{7}{8}}$ *Eucyrtidium* deformed?
- 7 $\frac{53\frac{1}{2}}{73\frac{3}{4}}$ *Cladomphalus elegans* B.
- 8 $\frac{49}{71\frac{3}{8}}$ *Pinnularia*
- 9 $\frac{65\frac{1}{2}}{71}$ *Chaetoceros subquadratus* A
- 10 $\frac{64}{69\frac{1}{4}}$ *Dietyphimus* fragment
- 11 $\frac{58\frac{1}{4}}{29\frac{7}{8}}$ small spinose discs elliptical
- 12 $\frac{53}{75\frac{1}{2}}$ *Cocconeis*

No. 762 R Monterey, lower stratum

- $\frac{49\frac{3}{4}}{62}$ *Aulisus* new?
- $\frac{41}{72\frac{1}{4}}$ *Halimaphys* fragment

No. 713 Monterey S. lower stratum

1	$\frac{68\frac{1}{2}}{77\frac{1}{4}}$	<i>Auliscus Euprosicus? parallelus</i> B. note 2 feet
2	$\frac{64}{78}$	<i>Campylodiscus</i>
3	$\frac{61}{67\frac{1}{4}}$	<i>Cladomphalus elegans</i> B. 10 rows
4	$\frac{57\frac{1}{2}}{75\frac{3}{4}}$	" " 8 "
5	$\frac{56\frac{1}{2}}{73}$	" " 12 on a lot of <i>Cocinodiscus</i>
6	"	<i>Coccinoid</i> E of above
7	$\frac{55\frac{1}{4}}{75}$	<i>Auliscus?</i>
8	$\frac{50\frac{1}{2}}{75}$	<i>Dictyocephalus?</i> broken
9	$\frac{46\frac{1}{2}}{75\frac{3}{4}}$	<i>Cladomphalus elegans</i> B.
10	$\frac{45}{72}$	<i>Amphitetras W. thesii</i>

No. 764 Monterey I some studies

- 1 $\frac{66\frac{1}{4}}{64\frac{1}{4}}$ *Entopyga* --- central plate
- 2 " *Eucyrtidium* E of above
- 3 $\frac{66\frac{1}{4}}{26}$ *Mesopyga minima* B. 66
- 4 $\frac{66\frac{1}{4}}{64\frac{1}{8}}$ *Rivostenia* 51
- 5 $\frac{61}{91}$ *Entopyga* showing the curvature
- 6 $\sqrt{\frac{58\frac{3}{4}}{64\frac{1}{8}}}$ *Leithepera?* *armata* B. new
- 7 $\frac{57\frac{1}{4}}{66}$ *Platycodon?* seen through
- 8 $\frac{45\frac{3}{4}}{73\frac{1}{3}}$ *Campylodiscus* small
- 9 $\frac{43\frac{3}{4}}{62\frac{3}{4}}$ *Loricosis* new
- 10 $\frac{42}{85\frac{2}{3}}$ *Eucyrtidium*
- 11 $\frac{40}{77\frac{2}{3}}$ *Eucyrtidium parvulum* B. new
- 12 $\frac{39\frac{1}{4}}{91}$ *Diplonis* *serabo* im
- 13 $\frac{42\frac{1}{4}}{67}$ *Almonia* *obliquata* large fragment
- 14 $\frac{72\frac{1}{4}}{77\frac{1}{4}}$ *Xocinobius* ~~*serabo*~~ *crassus* B.
- 15 $\frac{64\frac{1}{2}}{66}$ *E. cythra* in situ

No. 165 U Monterey lower stratum

- | | | | |
|----|---------------------------------------|--------------------------------------|--|
| 1 | $\frac{72\frac{1}{2}}{84\frac{1}{2}}$ | <i>Leptopyla</i> , central portion | good |
| 2 | $\frac{70}{63\frac{1}{2}}$ | <i>Diploneis didyma</i> Th | |
| 3 | $\frac{70\frac{3}{4}}{85\frac{3}{4}}$ | <i>Mesocypia alternata</i> B. | |
| 4 | $\frac{70}{29}$ | <i>Pinnulonia</i> : <i>Syra</i> | |
| 5 | $\frac{68\frac{1}{4}}{62\frac{1}{2}}$ | <i>Eucypridium lineatum</i> ? Th | |
| 6 | $\frac{66\frac{1}{2}}{24\frac{3}{4}}$ | <i>Cladomphalus elegans</i> , B. | a fragment just over a large <i>Levinsolites</i> |
| 7 | $\frac{66\frac{3}{8}}{25\frac{3}{8}}$ | | small <i>Polycypris</i> ♂ |
| 8 | $\frac{65}{82}$ | <i>Cyclotella</i> | large one |
| 9 | $\frac{63}{73\frac{1}{4}}$ | " | with umbilicus |
| 10 | $\frac{62\frac{1}{2}}{21\frac{7}{8}}$ | <i>Stylodictya quadrata</i> B. | new |
| 11 | $\frac{60}{80\frac{1}{2}}$ | <i>Mercena hexagona</i> B. | |
| 12 | " | " " " | with two cells near margin |
| 13 | $\frac{52}{70\frac{3}{4}}$ | <i>Denticella tridentata</i> ? Th | side view |
| 14 | $\frac{48}{75\frac{3}{4}}$ | <i>Succinea</i> | new |
| 15 | $\frac{47}{63\frac{1}{2}}$ | <i>Saliscus</i> ?? | |
| 16 | $\frac{45\frac{1}{4}}{71\frac{1}{2}}$ | <i>Brachnolites Ehrenbergii</i> B. | small |
| 17 | $\frac{45}{66\frac{1}{2}}$ | " " " | " |
| 18 | $\frac{44\frac{1}{4}}{21}$ | <i>Actiniscus</i> | good one |
| 19 | $\frac{41\frac{1}{4}}{20}$ | <i>Cladomphalus elegans</i> , B. | secured - E of a broken ring ♂ |
| 20 | $\frac{38\frac{3}{8}}{67\frac{3}{8}}$ | <i>Saliscus</i> | small one |
| 21 | $\frac{35\frac{1}{2}}{67\frac{1}{4}}$ | <i>Podocypis</i> | fragment |
| 22 | $\frac{33\frac{3}{8}}{67}$ | Several species of <i>Dictyochea</i> | near the <i>Saliscus</i> |

No. 766 . V. Monterey, Lower Stratum

- 1. $\frac{68\frac{1}{2}}{73\frac{1}{2}}$ *Pumularia* *speciosa* ?
- 2. $\frac{61}{81}$ *Buccinea*
- 3. $\frac{65}{82}$ *Cornulites*
- 4. $\frac{65\frac{1}{2}}{88}$ *Cladomphalus elegans* B. *obscure*
- 5. $\frac{64\frac{1}{4}}{81}$ *Anlicardiscus* ? *with two, etc*
- 6. $\frac{52\frac{1}{2}}{27\frac{1}{4}}$ *Cladomphalus elegans* B. *- near a lot of Buccinardiscus*)²⁷
- 7. $\frac{52\frac{1}{2}}{78\frac{1}{4}}$ " " " *central portion*
- 8. $\frac{49\frac{3}{4}}{77\frac{2}{3}}$ *Cornulites* *small*
- 9. $\frac{49}{77\frac{3}{4}}$ *Cladomphalus elegans* B.
- 10. $\frac{41\frac{3}{4}}{22\frac{1}{2}}$ *Anlicardiscus*
- 11. " *Cladomphalus elegans* B. *just below R above, obscure.*

No. 767 Monterey W

1 $\frac{46}{50/8}$

Sulcius

2 $\frac{45}{60/4}$

Tricentium ?
Stylus ?

small

3 $\frac{41/4}{82/8}$

Templea ?



small & of a, pink

No. 768 Monterey X

- 1 $\frac{62\frac{1}{2}}{54\frac{1}{4}}$ *Narivula* ?
- 2 $\frac{35}{67\frac{1}{4}}$ *Cocconeis* *marginata* B
- 3 $\frac{63\frac{1}{2}}{62\frac{1}{2}}$ *Cladomphalus* *elegans* B
- 4 $\frac{37\frac{1}{2}}{74}$ " " "
- 5 $\frac{39\frac{3}{4}}{69\frac{1}{4}}$ *Antiscus*
- 6 $\frac{35\frac{3}{4}}{67\frac{1}{2}}$ *Denticella* *tridentata* Ehr
- 7 " *Cladomphalus* *elegans* B. just S.E. of above


No. 769 Monterey Y (a little dust and ash accidentally introduced)

- | | | | |
|---|---------------------------------------|---|---|
| 1 | $\frac{55}{61}$ | <i>Auliscus quadrupes</i> B. | Small disc, like an <i>Auliscus</i> with 4 feet |
| 2 | $\frac{56\frac{1}{4}}{80\frac{3}{4}}$ | " " | " " same seen obliquely |
| 3 | $\frac{41\frac{7}{8}}{66\frac{3}{4}}$ | <i>Auliscus</i>
<i>Apachnoidiscus farvus</i> B. | broken but good |
| 4 | $\frac{35\frac{1}{2}}{26\frac{1}{2}}$ | <i>Pumalicia</i> ? | like <i>P. ornata</i> ? B |
| 5 | $\frac{35}{68}$ | <i>Trientalium</i> <i>Walkerii</i> ? H. & B. | small one |
| 6 | " | <i>Eupodiscus</i> ? | 2 feet |
| 7 | $\frac{34}{71}$ | <i>Di cladia</i> | large one |
| 8 | $\frac{46\frac{1}{2}}{80}$ | <i>Cladomphalus elegans</i> | fragment poor |
| 9 | $\frac{46\frac{3}{4}}{80\frac{7}{8}}$ | <i>Grammatophora</i> | large, side view, broken but good |


No. 770 Monterey L

- 1 $\frac{67\frac{3}{4}}{69\frac{1}{4}}$ *Gonisthecium Rogersii* Th
- 2 $\frac{60\frac{3}{4}}{29\frac{3}{4}}$ *Actinocyclus*
- 3 $\frac{60\frac{3}{4}}{61\frac{1}{4}}$ *Xanthospyris serrata* B. good one
- 4 $\frac{57\frac{1}{4}}{61}$ *Contopyla*
- 5 $\frac{55\frac{1}{2}}{72\frac{1}{2}}$ *Coccylicidium*
- 6 $\frac{53}{69\frac{1}{2}}$ *Actinocyclus*
- 7 $\frac{53}{61\frac{1}{2}}$ "
- 8 $\frac{52\frac{1}{4}}{68\frac{3}{4}}$ *Cladomphalus elegans* B.
- 9 $\frac{51\frac{1}{2}}{12\frac{1}{2}}$ *Cornulella clathrata* Th
- 10 $\frac{49\frac{1}{8}}{66\frac{7}{8}}$ *Cladomphalus elegans* B.
- 11 " *Actinocyclus? undulatus* B. at $\frac{E}{G}$ place
- 12 $\frac{45}{25}$! *Actinocyclus?*
- 13 $\frac{51}{63}$ *Actinocyclus?* only one foot

No. 771 *Muscia A'*

- 1 $\frac{57\frac{1}{4}}{60}$ *Oncodiscus apiculatus* B.
- 2 $\frac{46\frac{3}{4}}{72}$ *Coccinodiscus gemmifer* Th.
- 3 $\frac{55\frac{1}{2}}{72\frac{3}{8}}$ *Xanthopyxis*  See No 12
- 4 $\frac{55\frac{3}{4}}{69\frac{1}{4}}$ *Mastogonia? fraxexta?* Th. near a ring of *Sulphurella*
- 5 $\frac{56}{29\frac{1}{8}}$ *Szygoceros? umbonatus* B.
- 6 $\frac{55\frac{3}{4}}{23\frac{3}{4}}$ *Denticella tridentata* Th. top view
- 7 $\frac{50}{20\frac{1}{4}}$ *Mesopta alternata* B. all alone
- 8 $\frac{49}{64\frac{1}{2}}$ *Denticella tridentata* Th. oblique
- 9 $\frac{49}{26\frac{1}{4}}$ *Polyris* with a spine
- 10 $\frac{42\frac{1}{2}}{74}$ *Denticella tridentata* Th. oblique
- 11 $\frac{42}{82\frac{3}{4}}$ *Arachnoidiscus Ehrenbergii* B. looks $\frac{1}{2}$ of a large one
- 12 $\frac{43\frac{1}{2}}{60\frac{3}{4}}$ *Xanthopyxis* side view See No 3
- 13 $\frac{40\frac{1}{2}}{65}$ *Eucyrtidiscus*
- 14 " " *lineatum?* Th.
- 15 $\frac{40}{75}$ *Coccineis*
- 16 $\frac{39\frac{1}{4}}{69\frac{1}{2}}$ *Denticella tridentata* Th. side view
- 17 $\frac{39\frac{1}{4}}{58\frac{1}{2}}$ *Coccinodiscus oculus-viridis* Th. good one
- 18 $\frac{37\frac{3}{8}}{69\frac{3}{4}}$ *Gammalephora crispin?* Th. strong other
- 19 $\frac{45\frac{1}{8}}{29\frac{1}{2}}$ *Pleurospyris?*
- 20 $\frac{45}{72\frac{1}{4}}$ *Actiniscus* seen obliquely, good
- 21 " *Coccinodiscus oculus-viridis* Th. N.E. of above

No. 772. Monterey B'

- 1 $\frac{62}{76\frac{1}{4}}$ *Leucino-discus oculus-iridis* Ehr
- 2 $\frac{62\frac{1}{4}}{77}$ *Frachnodiscus montereyi* Cohen
- 3 $\frac{62}{74}$ *Leucino-discus oculus-iridis* Ehr
- 4 " " " " like *C. gigas*, with smooth center
- 5 $\frac{59\frac{1}{4}}{78\frac{1}{4}}$ *Onco-discus aculeatus* B
- 6 $\frac{57\frac{1}{2}}{61}$ *Eucyrtidium* new
- 7 $\frac{53\frac{1}{2}}{82\frac{1}{4}}$ *Leithopora?* *aspera* B new
- 8 $\frac{54\frac{3}{4}}{76\frac{1}{2}}$ *Chladomphalus elegans* B. fine one
- 9 " " *Dictyophimus?* fragment E. of above
- 10 $\frac{50\frac{3}{4}}{73}$ *Denticella tridentata* Ehr top view
- 11 $\frac{47\frac{3}{4}}{81\frac{1}{4}}$ *Cocconeis* large one
- 12 $\frac{45\frac{1}{4}}{81\frac{1}{4}}$ Small iridescent disc
- 13 $\frac{42}{80\frac{1}{8}}$ *Eucyrtidium* *breve*? Ehr
- 14 $\frac{43}{80}$ *Scaphidium amphioxys* B.  new gen.
- 15 $\frac{41\frac{3}{4}}{28\frac{3}{4}}$ *Denticella tridentata* Ehr side view
- 16 $\frac{45\frac{1}{4}}{82\frac{1}{8}}$ *Grammatophora iraspin?* Kz stout ribbed
- 17 $\frac{31\frac{1}{2}}{75}$ *Onco-discus apiculatus* B.

No. 773 Monterey C'

- | | | | |
|---|--|--------------------------|----------------------|
| 1 | 65
<u>95^{3/4}</u> | Comidetta 7. | |
| 2 | 63
<u>29^{1/2}</u> | Chadomphalus elegans B. | good lat-lichen |
| 3 | 53
<u>23</u> | Aulicaria | |
| 4 | 50
<u>74^{1/8}</u> | | in-lescent size |
| 5 | 41 ^{1/2}
<u>83^{3/4}</u> | Symphidochus W. Thesii : | small |
| 6 | 39
<u>20^{1/2}</u> | D. drygus | fragment, large one, |

Monterey D'

No. 7914 Monterey E' mounted but not recorded

No. 775 Monterey F¹

No. 746 Monterey G¹

Hyalodiscus Californica

No. 777 Tulare Co. California
Slide A

No 1	$\frac{71.4}{71\frac{1}{4}}$	<i>Arachnoidiscus Ehrenbergii</i> B.	good one
2	$\frac{66}{63\frac{1}{2}}$	<i>Gonothecium Rogersii</i> Ehr.	at lower end of large yellow spot
3	$\frac{67}{25\frac{3}{4}}$	<i>Xanthopyxis</i> :	side view
4	$\frac{65\frac{1}{4}}{2\frac{1}{2}^+}$	<i>Eucyrtidium lineatum</i> Ehr?	
5	$\frac{64.2}{77}$	<i>Mastogonia? praetoxla?</i> Ehr	oblique just above two worms
6	$\frac{63\frac{1}{2}}{73\frac{1}{4}}$	<i>Eucyrtidium lineatum?</i>	good
7	$\frac{63^+}{29\frac{1}{2}}$	<i>Mesopla alternata</i> B	
8	$\frac{59}{19\frac{7}{8}}$	<i>Aclinoptychus</i>	8 rays
9	$\frac{55}{71\frac{2}{3}}$	<i>Gonothecium Odontella</i> Ehr.	
10	$\frac{54}{86\frac{1}{2}}$	<i>Xanthopyxis serrata</i> B.	N.W. of a large dark mass.
11	"	"	N.E. of last
12	$\frac{53}{81\frac{1}{2}}$	<i>Arachnoidiscus Japonicus</i> U	
13	$\frac{47.2}{21}$	<i>Aclinoptychus</i>	9 rays good
14	$\frac{48}{23\frac{3}{4}}$	<i>Mastogonia? praetoxla?</i> Ehr	side view
15	$\frac{45\frac{1}{2}}{86}$	<i>Gammatopora</i>	
16	$\frac{36^*}{66\frac{1}{4}}$	<i>Denticella tridentata</i> Ehr	side view

No. 748
 Tulare Co. California B.

- | | | | | |
|----|---------------------------------------|--|-----------|--|
| 1 | $\frac{68\frac{1}{2}}{75\frac{3}{4}}$ | <i>Mastigonia</i> <i>macleri</i> Ehr | side view | low diam |
| 2 | $\frac{68}{65\frac{1}{4}}$ | " " | top view | |
| 3 | $\frac{66}{68\frac{1}{8}}$ | | | like an <i>Helicis</i> but with 4 feet, E of <i>D. hypopygia apiculata</i> |
| 4 | $\frac{59\frac{1}{4}}{28\frac{3}{4}}$ | <i>Grammatophora</i> <i>tr</i> | | |
| 5 | $\frac{60}{77\frac{3}{4}}$ | <i>Lycopodium?</i> <i>macleri</i> <i>macleri</i> Ehr. | | |
| 6 | " | <i>Coccolithus</i> <i>ellipticus</i> B
<i>gemellianus?</i> | | B |
| 7 | $\frac{58\frac{3}{4}}{82\frac{1}{4}}$ | <i>Tetragramma?</i> | | just E of a large dark mass |
| 8 | $\frac{52\frac{1}{4}}{69}$ | <i>Commetella</i> <i>clavata</i> B <i>profunda</i> Ehr. | | |
| 9 | $\frac{30\frac{3}{8}}{69\frac{1}{4}}$ | <i>Denticella</i> <i>tridentata</i> Ehr. | top view | |
| 10 | $\frac{30\frac{1}{4}}{26\frac{1}{2}}$ | <i>Coccolithus</i> <i>ellipticus</i> B. | | oblique |

No. 779 Tulare Co. California
Slide C.

- $\frac{63}{29 \frac{3}{4}}$ *Loxemodiscus oculus-iridis* broken on S.E. side
- $\frac{66 \frac{1}{8}}{70}$ " *borealis*
- $\frac{66}{29}$ *Mastrigonia praetesta*
- $\frac{65 \frac{3}{4}}{29 \frac{1}{4}}$ *Scaphidium amphioxys?* S.E. of last
- $\frac{65 \frac{1}{2}}{70 \frac{1}{2}}$ *Triceratium* small
- $\frac{64 \frac{1}{4}}{88}$ *Rhizosolenia ornithoglossa?* Ehr.
- $\frac{64 \frac{1}{2}}{65}$ *Actinopterychus* 14 rays
- $\frac{64 \frac{1}{2}}{29 \frac{1}{4}}$ *Mastrigonia praetesta* top view
- $\frac{65}{85}$ *Pinnularia*
- $\frac{58 \frac{1}{4}}{24}$ *Pinnularia lyra?*
- $\frac{49}{65}$ " "
- $\frac{40 \frac{3}{4}}{71 \frac{1}{4}}$ *Actinopterychus* 14 rays

No. 780 Tulare Co. California
Slide D.

$\frac{55}{62}$ (Air bubble)

$\frac{52}{28}$ Metrodiscus between 2 Actinoptychi

$\frac{45}{30}$ Actinoptychus 22 rays.

$\frac{40}{66}$ Rhizosolenia ornithoglossa?

No. 780a Tulare Co. California
Slide E.

No. 781

San Luis, Obispo, California

Slide A

1 $\frac{66\frac{1}{8}}{66\frac{3}{4}}$

Enamorphous

edge view

2 $\frac{62\frac{7}{8}}{76\frac{1}{2}}$

"

front view

good.

No. 782 San Luis, Bispo B

- | | | | |
|---|---------------------------------------|---------------------------------|---------------|
| 1 | $\frac{64\frac{3}{4}}{65}$ | <i>Arachnoidiscus japonicus</i> | |
| 2 | $\frac{56}{68\frac{1}{4}}$ | <i>Actinocyclus</i> | |
| 3 | $\frac{53}{77}$ | <i>Mesopoda alternata</i> B. | |
| 4 | $\frac{50\frac{1}{4}}{68\frac{1}{4}}$ | <i>Grammaphora</i> | slight ribbed |
| 5 | $\frac{36}{65\frac{1}{4}}$ | <i>Dityphis</i> ? | in a lump. |

No. 783 San Luis Obispo Co.

- 52 3/4 Rhabdonema adriatica
- 60 3/4 " Coscinodiscus
- " Mesocena hexagonalis B
- 46 3/8 Gallionella? with rays
- 63 1/4 Rhabdonema adriatica
- 43 3/4 " "
- 68 1/4 Aclinocylus many rayed 23 rays
- 42 3/4 " "
- 75 1/4 Arachnoidiscus japonicus
- 37 7/8 " "
- 45 3/4 Gallionella ? with rays just E. of last
- 34 3/4 Rhabdonema adriatica
- 78 " "
- 33 1/2 Arachnoidiscus japonicus Ehr.
- 77 1/2 Amphitetras (ornata?) very small near two ^(adjacent) Coscin
- 29 1/2 Xanthiopyxis serrata
- 77 1/8 " "
- 3/4 " "
- 71 3/4 " "
- 51 3/4 " "
- 82 3/4 " "

No. 784 San Luis Obispo Co. D.

- 65 Rhabdonema adriatica E.
- 62 3/4 " Mesocena hexagonalis, deformed? W. E. of last
- 54 3/4 Dictyophimus?
- 84 " "
- 54 3/4 Denticella tridentata
- 69 " "
- 49 Arachnoidiscus Ehrenbergii B. a fragment
- 61 2/8 " "
- 48 1/4 Diploneis crabra
- 60 1/4 " "
- 45 7/8 Cyclotella flava? B large one
- 64 5/4 " "
- 40 3/4 Mesocena? polygonalis B. with many knots
- 61 " "
- 37 3/4 Isthmia obliquata good piece
- 82 7/8 " "
- 62 Triceratium? small
- 85 1/4 " "

No. 785 - San Luis Obispo E.
(by candle light)

$5\frac{1}{2}$ Amphitetras Wilkesii?

69
 $45\frac{1}{8}$ Encyrtidium
 $62\frac{1}{4}$

No. 786 - San Luis Obispo F.

$51\frac{1}{2}$ Arachno'idiscus Japunicus

$74\frac{3}{4}$
 $39\frac{1}{4}$ Podocystis fragt.
 80

$35\frac{1}{2}$ Encyrtidium lineatum

$61\frac{3}{4}$
 33 Entophyla australis

$26\frac{1}{8}$
 61 Stalionma
 28

No. 787 San Luis Obispo Ca.
(by edges of glass)

$\frac{34}{99}$ *Bocconeis* fine one
 $\frac{81}{105\frac{1}{2}}$ *Arachnoidiscus Japonicus*

No. 788 San Luis Obispo Ca.

$\frac{39}{64\frac{1}{4}}$ *Pinnularia* amoval one

No. 789 - Suisun Bay California, etc
Slide A

- 1 $\frac{65\frac{1}{4}}{80\frac{1}{8}}$ *Loricodiscus*
- 2 $\frac{66}{69\frac{1}{4}}$ *Rhizodemia?* Y
- 3 $\frac{64}{84\frac{3}{4}}$ " V
- 4 $\frac{61}{72}$ *Hemianulus?* II stands alone
- 5 $\frac{57\frac{1}{2}}{65\frac{1}{8}}$ *Goniathecium Monodon* etc III
- 6 $\frac{55}{75}$ *Goniathecium Rogersii* etc.
- 7 " *Kanthispyxis* just below the last
- 8 $\frac{51\frac{1}{4}}{73\frac{1}{8}}$ *Rhizodemia?* Y like No 2
- 9 $\frac{51\frac{1}{4}}$ *Ornatidiscus apiculatus* B.
- 10 " *Flustrella?* small one E of last
- 11 $\frac{49\frac{1}{4}}{80\frac{1}{4}}$ *Loricodiscus Lourae?* etc small iridescent
- 12 $\frac{50}{20\frac{1}{2}}$ *Mastogonia* partly obscured
- 13 $\frac{47\frac{1}{2}}{71\frac{3}{4}}$ *Cephalodiscus?* with two feet
- 14 $\frac{42\frac{1}{2}}{75\frac{3}{4}}$ *Kanthispyxis*
- 15 $\frac{36\frac{3}{4}}{75\frac{1}{3}}$ *Rhizodemia* ... (the funnel in good)
- 16 $\frac{32\frac{1}{4}}{30\frac{1}{2}}$ *Spirula* three edges and broadest.

No. 490 Luisen Bay, B

- | | | | |
|----|---------------------------------------|----------------------------------|------------------------------|
| 1 | $\frac{30}{24\frac{1}{2}}$ | <i>Mastigophora</i> | |
| 2 | " | <i>Goniostereum</i> | |
| 3 | $\frac{56\frac{1}{2}}{23\frac{1}{4}}$ | <i>Hemicaulis</i> | |
| 4 | $\frac{56}{69\frac{3}{4}}$ | <i>Di cladia? clathrata</i> Ehr. | N E of a large dark mass |
| 5 | $\frac{23\frac{1}{2}}{60}$ | <i>Goniostereum Monodon</i> Ehr. | |
| 6 | $\frac{51\frac{1}{8}}{63\frac{1}{4}}$ | <i>Goniostereum Cornuta</i> Ehr. | |
| 7 | $\frac{39}{23\frac{1}{4}}$ | <i>Di cladia clathrata</i> | N.E of a <i>Pocinothecus</i> |
| 8 | $\frac{49}{24}$ | <i>Goniostereum Monodon</i> Ehr. | |
| 9 | $\frac{46}{80}$ | <i>Di cladia? clathrata</i> | |
| 10 | " | <i>Goniostereum</i> | E of above |

No. 791 - Suisun Bay, California
Slide Co.

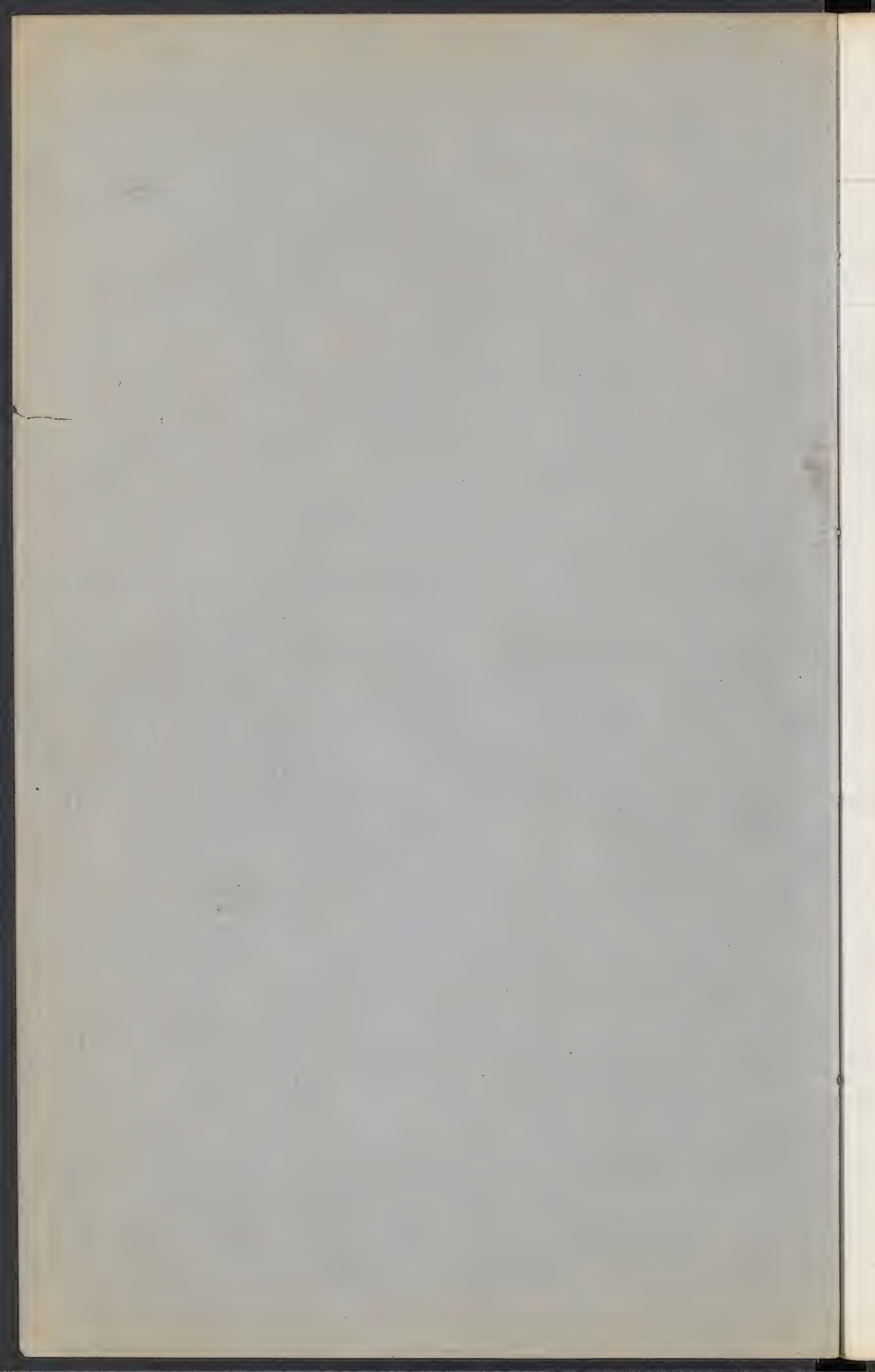
- 1 $\frac{64\frac{1}{2}}{62\frac{1}{8}}$ *Oncodiscus ellipticus* B O
- 2 $\frac{63\frac{1}{2}}{63\frac{1}{2}}$ *Hemimulus*
- 3 $\frac{60\frac{1}{8}}{75\frac{1}{2}}$ *Gonisthecium Rogersii* ?
- 4 $\frac{62\frac{1}{8}}{66\frac{1}{3}}$ *Gonisthecium!* ? ~~new~~
- 5 $\frac{62}{71\frac{1}{8}}$ *Sarcinodiscus gemmifer?* *iridescent, radiati*
- 6 $\frac{57\frac{1}{8}}{75\frac{1}{2}}$ *Gonisthecium ledorlette* Ehr *side view, new*
- 7 $\frac{57}{66\frac{1}{4}}$ " *undulatum* B *new*
- 8 $\frac{55}{84\frac{1}{2}}$ *Mastogonia*
- 9 " *Gonisthecium*
- 10 $\frac{55\frac{1}{4}}{62\frac{1}{2}}$ *Gonisthecium undulatum* B *side view, good*
- 11 $\frac{54\frac{1}{2}}{85}$ *Eubodiscus radiatus?* B. *fine one*
- 12 " *Gonisthecium Monodon* Ehr. *S.E. of last*
- 13 $\frac{50\frac{1}{2}}{61\frac{1}{2}}$ *Peristephania* ? = *leptum* ? *new* *ledorlette* Ehr. ? *new*
- 14 $\frac{49}{75\frac{1}{2}}$ *Friceratium interruptum* B \square *fragment of a large one, new*
- 15 $\frac{41}{75\frac{1}{2}}$ *Friceratium furc.* Sm
- 16 $\frac{42}{74\frac{1}{4}}$ *Peristephania lineata* Ehr. *good one*

No. 792 . D
Swinson Bay Cala.

58 Rhizosolenia punctata B
64 1/2 " Decladia? clathrata just under it

No. 793 Swinson Bay, Cal. E.

74 3/4 ? very small, stands alone, near edge left by - ?
 73 1/8 Rhizosolenia
 73 7/8 Actinopterygius 15 rays etc.
 82 1/4 5 iterations
 73 1/4 Raphoneis rhombus Ehr.
 71 1/4 Goniothecium 2 species
 65 1/8 Goniothecium Menodan
 73
 64 1/4 Three edged spicule, branched.
 81 3/4
 55 3/4 Eupodisca ? two feet
 29 1/4
 55 2/3 Peristephanica lineata Ehr. showing teeth well
 69 3/4
 52
 80 1/2
 44 3/4
 84 1/4



Continuation of Slide Catalogue
of the Fairly Collection
by Miss Washburn.

Sat. No. 794 Podega Bay, Cal^a St.

$\frac{61\frac{1}{4}}{70\frac{1}{3}}$ *Hyalocodiscus crux?* 12 feet.

$\frac{57\frac{1}{2}}{74\frac{3}{4}}$ *Actinopterychus Insuperbus*

$\frac{57\frac{1}{4}}{66\frac{7}{8}}$ *Ceratulus*

$\frac{55\frac{3}{8}}{13\frac{3}{4}}$ *Hyalocodiscus crux?*

$\frac{54}{23\frac{3}{4}}$ *Triacanthum Wilkesii*

$\frac{60\frac{1}{4}}{67\frac{1}{2}}$ *Hyalocodiscus Oregonus* 13 feet

$\frac{59\frac{3}{4}}{70}$ *Actinopterychus*

$\frac{63\frac{1}{4}}{75\frac{1}{4}}$ *Ceratulus*

$\frac{59}{63\frac{1}{8}}$ *Cocconeis*

No. 795 Podega Bay D.

$4\frac{1}{2}$ Arachnoidiscus
 $7\frac{1}{2}$
 $52\frac{1}{2}$ Coscinodiscus near *Isthmia obliquata*
 $65\frac{1}{4}$
 43 Arachnoidiscus
 $78\frac{1}{2}$
 $38\frac{1}{2}$ Coscinodiscus
 $71\frac{3}{4}$
 $36\frac{3}{4}$ *Isthmia obliquata*
 $71\frac{3}{4}$

No. 796 Podega Bay C.

$55\frac{1}{4}$ Cyclotella? } large disc minutely
 72 Hyalodiscus? } - cos. =
 $54\frac{3}{4}$ Hyalodiscus subtilis
 $76\frac{2}{3}$
 $50\frac{1}{4}$ Anlacodiscus Dreyanus
 73
 $46\frac{1}{4}$ " " Small
 $73\frac{1}{4}$
 $48\frac{1}{2}$ " " 2 specimens
 $68\frac{2}{3}$
 $49\frac{1}{2}$ " " oblique
 66

No. 997 Dodgey Day D.

on Card St. thick, with paper centre, by 1/2 inch objective

- $\frac{68\frac{1}{8}}{67}$ *Strachnoidiscus Ehrenbergii* Bailey.
 $\frac{68\frac{1}{2}}{25\frac{1}{4}}$ *Anlucodiscus Oreganus*, oblique view
Elliptical basal view of a fragment of *Isthmia*
 $\frac{64\frac{3}{4}}{23}$ *Anlucodiscus* Cruz? 4 large projections
 $\frac{50}{26\frac{1}{2}}$ " " "
 $\frac{58\frac{7}{8}}{21\frac{3}{4}}$ " *Oreganus* / Small, 8 " "
 $\frac{53}{43\frac{1}{8}}$ ($\frac{52\frac{1}{2}}{43}$) *Strachnoidiscus Ehrenbergii*
 $\frac{36\frac{3}{4}}{26\frac{3}{4}}$ *Anlucodiscus* 10 feet
 $\frac{52\frac{1}{2}}{62}$ *Anlucodiscus Oreganus* D. 12 "
 $\frac{42\frac{1}{2}}{22\frac{1}{3}}$ " " " 11 "
 $\frac{49\frac{1}{2}}{77\frac{1}{2}}$ " " " 9 "
 $\frac{49\frac{3}{4} + 4\frac{1}{4}}{41}$ ($\frac{46\frac{1}{2}}{28\frac{1}{2}}$) " " " 12 "
 $\frac{39\frac{1}{2}}{39}$ " " " 13 "
 $\frac{41\frac{7}{8}}{32\frac{1}{2}}$ " " " 14 "
 $\frac{35}{25\frac{1}{8}}$ " " " " "
 $\frac{36\frac{3}{4}}{26\frac{1}{4}}$ " " " 15 "
 $\frac{40\frac{7}{8}}{64\frac{7}{8}}$ " " " 16 "
 $\frac{44\frac{3}{4}}{78\frac{1}{8}}$ Fragment of *Isthmia* looking like a *Campylodiscus*
 $\frac{45}{82\frac{1}{8}}$ *Anlucodiscus* Small.
 $(\frac{3\frac{1}{4}}{21})$ *Ceratulus* large fragmt., horns wanting
 $\frac{39}{24}$ ($\frac{39}{23\frac{1}{4}}$) *Anlucodiscus Oreganus* D. 10 feet.
 $\frac{50}{26}$ *Anlucodiscus* Cruz? oblique view.

Hyalodiscus Californicus D. + *Ripiliatophora* +
Grammatophora abundant C.S.

No. 798 Prolegw Day E. (Card P.)

$\frac{51}{48}$ *Stenlocodiscus*

$\frac{43}{48}$
 $\frac{39}{4}$

$\frac{61}{4}$
 $\frac{38}{4}$

$\frac{41}{69}$

$\frac{42}{2}$
 $\frac{60}{4}$

$\frac{47}{79}$

$\frac{48}{2}$
 $\frac{78}{8}$

$\frac{54}{62}$
 $\frac{3}{4}$

$\frac{54}{46}$
 $\frac{3}{4}$

$\frac{44}{72}$
 $\frac{1}{4}$

Stenlocodiscus

"

"

"

"

"

Stetinophaemia

Stenlocodiscus

"

Stetinophaemia

oblique

(broken)

Small

(good one)

No. 799

Rodega Bay

St.

Rodega Bay S. (missing)

No. 800 Podoga Bay ... B.

$\frac{44 \frac{3}{4}}{86 \frac{1}{3}}$

Aulacodiscus

$\frac{43 \frac{1}{4}}{84 \frac{3}{4}}$

Isthmia

$\frac{43 \frac{1}{4}}{84 \frac{2}{3}}$

Hyalodiscus $\left\{ \begin{array}{l} \frac{44}{80 \frac{1}{2}} \\ \frac{45^+}{80 \frac{1}{4}} \end{array} \right.$

$\frac{31}{88}$

Strachnoidiscus

broken

$\frac{38 \frac{3}{4}}{67}$

(Aulacodiscus

Small one

$\frac{166 \frac{3}{4}}{}$

" "

seen obliquely

$\frac{30}{4}$

$\frac{42 \frac{1}{8}}{80 \frac{1}{2}}$

Ceratulus Californicus B.

No. 801

Slide I. (no label)

No. 802 San Luis Obispo. Cal^{ca} Slide J.

No. 803 San Rafael. Cal. K.

No. 804 California Slide L.

No. 805 California U.

No. 806 California N.

No. 807 California O.

No. 808

California

J^d

No. 809 California Q.

Fossil Infusoria. Marine

No. 810 California P.
Hyalodiscus

No. 811 Washington Territory
Slide S.

No. 812 Puget Sound Slide St.
Amphitritas
Cocconeis

No. 813 Puget Sound B.
 $\frac{48\frac{3}{4}}{70}$ Amphitritas Wilkesii

No. 814 Puget Sound C.

$\frac{50}{71\frac{3}{4}}$ Amphitetras Wilkesii $\frac{59}{61}$

$\frac{50}{70}$ Cocconeis C.S

$\frac{54}{70}$ Hyalodiscus Californicus B. C.S.

$\frac{54\frac{7}{8}}{40}$ Trachnodiscus Ehrenbergii

$\frac{54\frac{1}{4}}{73}$ Cocconeis many ribbed

$\frac{52}{78}$ "

$\frac{43}{81}$ " C.S

$\frac{50}{83}$ "

No. 815 Puget Sound D.

$\frac{48}{8}$ *Amalacodiscus Oregonus* P.

$\frac{61}{8}$

$\frac{49}{4}$ *Triceratium Wilkesii*

$\frac{76}{4}$

$\frac{49}{4}$ *Amphitetras Wilkesii*

$\frac{74}{4}$

$\frac{53}{2}$

$\frac{61}{23}$

$\frac{41}{2}$

$\frac{75}{2}$

No. 816 Puget Sound E.

$\frac{58}{2}$ *Cocconeis*

$\frac{75}{4}$

$\frac{51}{2}$ *Amphitetras Wilkesii* P. $\frac{55}{65}$

$\frac{82}{3}$

$\frac{54}{3/4}$

$\frac{66}{8}$

$\frac{57}{4}$ *Brachnodiscus Ehrenbergii* P.

$\frac{67}{4}$

$\frac{54}{3/4}$ *Amphitetras Wilkesii*

$\frac{81}{4}$

$\frac{48}{2}$ *root. oculus iridis*

$\frac{72}{2}$

$\frac{47}{4}$ *Cocconeis*

$\frac{71}{4}$

$\frac{55}{4}$

$\frac{67}{4}$

" ? *Species*

1 small one of fragment of large one.

No. 817 Puget Sound Fr.

$\frac{42}{70\frac{1}{4}}$ { *Amphitetras Wilkesii* } $\frac{55}{28\frac{3}{4}}$

$\frac{50\frac{1}{2}}$
 $\frac{38\frac{1}{3}}$

$\frac{61\frac{1}{2}}$ *Arachnoidiscus Ehrenbergii* (broken)
40

$\frac{50}{64\frac{7}{8}}$ *Amalacodiscus* Cuv.?

$\frac{62\frac{1}{2}}$ *Odontella*?
 $\frac{38\frac{1}{3}}$

$\frac{50}{29\frac{1}{4}}$ *Hyalodiscus*

$\frac{34\frac{3}{4}}$ *Bocconeis* n. sp.
 $\frac{25\frac{3}{4}}$

No. 818 Puget Sound G.

$\frac{48\frac{1}{2}}$ *Amphitetras Wilkesii* 2 specimens
 $\frac{41\frac{3}{4}}$

$\frac{31\frac{1}{4}}$ " "

$\frac{81\frac{3}{4}}$

$\frac{37}{82}$

No. 819 Puget Sound sb.
Eupodiscus Oregonicus

No. 826 Puget Sound I.
Denticella

No. 821 . Puget Sound J.
Denticella

No. 838 St. Williamson St. Chalk Cliffs Pit River

$\frac{69}{72}$ *Locconeis praetexta*

$\frac{69}{76}$

" "

axis horizontal

No. 839 Williamson. S.

No. 840 Williamson C.

No. 841 Williamson D.

No. 842

Williamson

E.

3 ft. below high water

No. 843

Williamson

F.

No. 844 Williamson G. 12 fathoms

No. 845 Williamson H.

No. 846 Slide No. 1. Dr. Kiel

No. 847 Lt. W. Lellan No. 1

No. 848 W^c Lellan No. 2

No. 849 W^c Lellan No. 2^a

No. 850

W^c Lellan

No. 4

No. 851

W^c Lellan

No 4^a

No. 852 Mc Lellan No. 6

No. 853 Mc Lellan No. 11

No. 854 Oregon St.
Fossil Infusoria.

No. 855 Oregon B.
Recent Infusoria. Ft. George, Columbia R.

No. 856 Oregon C.

No. 857 Oregon D.

No. 858. Oregon E.

H.

No. 859 Gulf of Mexico. Lat. $28^{\circ}52'N$ Lon. $83^{\circ}14'W$ 9 fath.

No. 860

B.

Gulf of Mexico No. 1 24°44' N. 82°09' 10 Fathoms

$\frac{45}{69\frac{3}{4}}$	<i>Spiriose globule</i>	
$\frac{54\frac{1}{4}}{69\frac{1}{2}}$	<i>Amphitetras ornata</i>	$\frac{54\frac{1}{4}}{69\frac{3}{4}}$
$\frac{61\frac{3}{4}}{71\frac{3}{4}}$	<i>Tricerat. farns?</i>	$\frac{61\frac{3}{4}}{72\frac{1}{4}}$
$\frac{54}{75\frac{3}{4}}$	" "	$\frac{54}{76}$
$\frac{53\frac{1}{2}}{80\frac{3}{4}}$	" "	$\frac{53\frac{1}{2}}{81}$
$\frac{51\frac{3}{4}}{64\frac{3}{4}}$	<i>Biddulphia tridentata</i> good	$\frac{51\frac{3}{4}}{65}$
$\frac{51\frac{3}{4}}{76\frac{1}{2}}$	<i>Triceratium farns?</i> side view	$\frac{51\frac{3}{4}}{76\frac{3}{4}}$
$\frac{49\frac{1}{2}}{72}$	<i>Spiriose globule</i>	$\frac{49\frac{1}{2}}{72\frac{1}{4}}$
$\frac{48}{70\frac{1}{2}}$	<i>Navicula! Lyra Ehr.</i>	$\frac{48}{70\frac{3}{4}}$
$\frac{48}{75\frac{3}{4}}$	<i>Diploneis didyma Ehr.</i>	$\frac{48\frac{1}{2}}{76}$
$\frac{47}{61\frac{3}{4}}$	<i>Triceratium setigerum</i> top	$\frac{47}{62}$
$\frac{46\frac{1}{2}}{65\frac{1}{4}}$	<i>Diploneis crabs?</i>	$\frac{46\frac{1}{2}}{65\frac{1}{2}}$
$\frac{45\frac{3}{4}}{70}$	<i>Biddulphia tridentata</i> side good	$\frac{45\frac{3}{4}}{70\frac{1}{4}}$
$\frac{43\frac{3}{4}}{71\frac{1}{4}}$	<i>Gallionella sulcata</i> Column	$\frac{43\frac{3}{4}}{71\frac{1}{2}}$
$\frac{41\frac{3}{4}}{81}$	<i>Triceratium farns</i> edge view	$\frac{41\frac{3}{4}}{81\frac{1}{2}}$
$\frac{41\frac{3}{4}}{77\frac{1}{4}}$	<i>Amphitetras ornata</i> good	$\frac{42}{77\frac{1}{2}}$
$\frac{40\frac{1}{4}}{71\frac{1}{4}}$	<i>Leosciodiscus</i>	$\frac{40\frac{1}{4}}{76\frac{1}{2}}$
$\frac{39}{68\frac{1}{2}}$	<i>Actinoptychus Senarius</i>	$\frac{39}{69}$

No. 861

C.

Gulf of Mexico, No. 3. Lat. $24^{\circ} 30'$ N. Long. $82^{\circ} 10'$ 12 Faths.

No. 862

D.

Gulf of Mexico, No. 4. Lat. $25^{\circ} 13'$ N. Long. $81^{\circ} 22'$ 14 Faths.

$\frac{47}{66}$ *Campylodisens Hodgsonii*? W.S. or N.S.

$\frac{147}{80}$ another valves at right angles

No. 863 E.
Gulf of Mexico, No. 5. Lat. $28^{\circ}33'$ Lon. $83^{\circ}53'$ 20 Fathoms

No. 864 F.
Gulf of Mexico Sec. 1111 No. 5. Lat. $25^{\circ}10'$ Lon. $82^{\circ}48'$ 24 f. 2 ft.

No. 865

G.

Gulf of Mexico Dec. VIII No. 5. Lat. $25^{\circ}10'$ Lon. $82^{\circ}48'$ 24 Fath.
Light portions natural state

No. 866

H.

Gulf of Mexico Dec. VIII No. 9. Lat. $28^{\circ}59'$ Lon. $88^{\circ}51'$ 152 Fath.

No. 867 J.

Gulf of Mexico Dec. VIII No. 10. 28°58' 88°57' 60 Fathoms

49 2 1/2	<i>Loxostomum</i>		49 2 1/2
	<i>Grammostomum</i>	Slender	40 1/2 39 3/4
	<i>Rotalia</i>	2 specimens	70 147
	<i>Rotalia</i>		69 3/4 88 3/4
	<i>Grammostomum</i>	Serratum B. n.sp. good.	64 1/2 86 1/4
	"	"	68 3/4 61 3/4
	"	Large one	68 78 3/4
	"	"	66 3/4 63
	<i>Prinulasia</i>	<i>peregrina</i> ?	56 3/4 25
	<i>Triceratium</i>	Small	57 3/4 28 1/4
	<i>Rotalia</i>		50 1/2 90
	<i>Grammostomum</i>	Large	45 3/4 74 1/2
	"	"	41 22 1/4
	<i>Otrophoceros</i>		58 3/4 84 1/2
	<i>Eupodiscus</i>	<i>radiatus</i> B.	59 74 1/4
	<i>Rotalia</i>	Showing aperture	59 23
	<i>Navicula</i>	Sigmoid	38 20
	<i>Grammostomum</i>	Slender	34 3/4 42
	"	Membrane only	38 63 1/4
	<i>Globigerina</i>		32 3/4 26 1/4
	<i>Onchium</i> ?		32 81 1/2
	<i>Gallionella</i>	<i>sulcata</i> , chain	31 3/4 69 3/4
	<i>Prinulasia</i>		32 61 3/4
	<i>Triceratium</i>	Large	30 1/2 86

No. 868

J.

Gulf of Mexico No. 11. Lat. $27^{\circ}50'$ Lon. $85^{\circ}6'$ 240 Faths.

Boiled with H. cl. acid.

No. 869 K.

Gulf Stream. Sec. VIII No. 13 Lat. $32^{\circ}54'01''$ Lon. $71^{\circ}51'15''$

Treated with Hydrochloric acid

- | | |
|------------------------------------|--|
| $49\frac{3}{4}$
$69\frac{3}{4}$ | Green sand cast. good. |
| 56
74 | Siliceous cast of <i>Globigerina</i> ? |
| $45\frac{3}{4}$
69 | Green sand cast Small but good |
| $44\frac{3}{4}$
$29\frac{3}{4}$ | Siliceous cast of spherical cells with the casts of
(the pores) |
| $42\frac{1}{4}$
$71\frac{3}{4}$ | Green sand cast |
| 40
$72\frac{1}{8}$ | Cast of Tubuli |
| $39\frac{1}{2}$
$69\frac{3}{4}$ | Green sand cast |
| $38\frac{1}{8}$
$63\frac{2}{3}$ | Green sand cast. many celled spores |
| 39
27 | Cast of cell with its pores |
| $36\frac{1}{2}$
62 | Cast of spiral |
| " | Cast of " <i>Globigerina</i> ? with pores just below
(last) |
| $36\frac{1}{2}$
$60\frac{3}{4}$ | Green sand cast good one |

No. 840 L.

Gulf of Mexico Sec. VIII No. 15 - Lat. $29^{\circ}29'$ Lon. $87^{\circ}19'$

Sandy - 150 Fath.

$\frac{52\frac{1}{4}}{66\frac{1}{8}}$ Green sand cast of Spongia tissue good

$\frac{48\frac{1}{2}}{63\frac{1}{4}}$ " " " fragt. of a large spiral Polythalamium shell

$\frac{51\frac{1}{4}}{84}$ another portion of same shell

by right edge separated from above in mounting.

$\frac{58\frac{1}{2}}{69\frac{2}{3}}$ Cast of a Grammostomum

No. 841 M.

Gulf of Mexico Sec. VIII No. 15 Lat. $27^{\circ}31'$ Lon. $85^{\circ}19'$

Heavy parts treated with HCl 320 Fathoms.

No. 843 H.

Gulf of Mexico No. 19. Lat. $24^{\circ}33'$. Lon. $84^{\circ}30'$. 85 Fath.

Light portions in natural state.

No. 843 O.

Gulf of Mexico. Lat. $28^{\circ}12'$ Lon $85^{\circ}44'$ 160 Fath.

$\frac{52\frac{1}{2}}{75\frac{3}{4}}$ *Halimma* with ~~small~~ spines

$\frac{46\frac{1}{2}}{76\frac{1}{4}}$ East of Giral Polythal^a

$\frac{67}{67\frac{1}{4}}$ " " bearing spine ?

No. 844.

P.

Gulf of Mexico. Lat. $29^{\circ}05'$ Lon. $86^{\circ}25'$ 125 Fathoms

No. 845. Q

Gulf of Mexico, Sec. VIII No. 22. Lat. 29° or Lon 89° 22' 15 fath.
(Course parts)

$\frac{60}{78}$	Grammostomum	
$\frac{15}{2}$	Calcareous plate of Synapta	$\frac{40}{166}$
	" "	$\frac{70}{27}$
	Grammostomum	$\frac{68\frac{3}{4}}{81\frac{3}{4}}$
	Textilaria	$\frac{68}{64\frac{1}{4}}$
	Sper ^{la} culina	$\frac{60}{60\frac{1}{2}}$
	Grammostomum	$\frac{55}{25}$
	Strophocornus	$\frac{55}{78.4}$
	Strophocornus	$\frac{50}{60\frac{1}{2}}$
	Calcareous plate touching last	"
	"	$\frac{42\frac{3}{4}}{60\frac{1}{2}}$
	Lagena?	$\frac{42\frac{3}{4}}{28\frac{1}{2}}$
	Spinose globe	$\frac{42}{68\frac{1}{4}}$
	Spine of Echinoderm	$\frac{41\frac{1}{4}}{70}$
	Textilaria?	$\frac{40\frac{1}{2}}{73\frac{3}{4}}$
	Grammostomum	$\frac{55\frac{7}{8}}{83\frac{3}{4}}$
	3 holed plate	$\frac{36}{63\frac{3}{4}}$

good

No. 876

R.

Gulf of Mexico No. 23. Lat. 29° 15' Lon. 86° 30' 57 fath.

Coasts of Amphistegina &c

No. 877.

S.

Gulf of Mexico. No. 24. Lat. 29° 30' Lon. 86° 41' 16 fath.

No. 848 S¹¹
Gulf of Mexico No. 19 Sec VIII Lat. 27° 33' Lon. 84° 30'

No. 849 J¹¹
Gulf of Mexico, No. 19, Sec. VIII Lat. 27° 33' Lon. 84° 30'

No. 889.

M.

Gulf of Mexico. Lat. $29^{\circ} 05'$ Lon. $86^{\circ} 25'$ 125 feet

$\frac{66\frac{3}{4}}{71}$ Textilaria ? new & good

$\frac{60}{21+}$ Urigerina?

$\frac{51}{72\frac{3}{4}}$ Calcareous plate of an Echinoderm

" Rotalia? with green sand in its cells
anchoring last on N.E. side

$\frac{35\frac{1}{2}}{83\frac{3}{4}}$ Grammostomum large

$\frac{31\frac{3}{4}}{72\frac{1}{2}}$ " serrate (new?)

$\frac{50\frac{1}{4}}{19\frac{1}{2}}$ Robulina?

$\frac{53\frac{3}{4}}{69\frac{7}{8}}$? S. E. of a spiral mollusk

No. 881

U.

Gulf of Mexico Lat. 29° 05' Lon. 86° 25' 125 feet

$\frac{65.8}{70.4/3}$

Spine of *Schmiederni*: serrate

$\frac{62}{23}$

Globigerina

$\frac{53}{73.4}$

Dentalina: a fragment

"

Uvigerina?

$\frac{44.8}{70.7/8}$

Grammoselinum

fine one

$\frac{41.4}{68.4/4}$

?

No. 882

W.

Gulf of Mexico

Lat. $25^{\circ}05'$ Lon. $82^{\circ}38'$ 22 Fath.

Orbiculina

Shows cells well

No. 883

V.

Outside Mobile Bay I. of Mobile Pt. 8 Faths

Lycoperos

No. 884 . Vol. 17. Slide A.

Para River, S. W.

By Bailey's Indicator

$80\frac{1}{4}$
 $82\frac{2}{3}$
 81
 $77\frac{1}{2}$
 $69\frac{1}{2}$
 80
 55
 66

Ditylum side view

Zygoceros like Fig. 25
(Priddulphia tenuis)

Coscinodiscus tenuis B.

Zygoceros Fig. 25

By Multimeter
Inches. L. 4073.

20
 11
 13
 13

Priddulphia tenuis

Triceratium Shadboltaii

No. 885. B.

Para River S. W.

$57\frac{3}{4}$
 47
 $53\frac{3}{4}$
 $36\frac{1}{2}$

End view of Terpsinoe

Eupodiscus

No. 886 C. (cont. 26)

Para River S.A.

$\frac{61\frac{1}{4}}{31\frac{1}{4}}$	<i>Terpsinoë</i>	Small one like fig. 49
$\frac{49}{28\frac{1}{4}}$	<i>Eupodiscus</i>	
$\frac{34\frac{1}{4}}{87\frac{1}{4}}$	<i>Surirella</i>	

No. 887 D. Para River S.A.

$\frac{53\frac{1}{2}}{24\frac{3}{4}}$	<i>Terpsinoë?</i>	<i>Tetragramma</i>
$\frac{41\frac{1}{2}}{29}$	<i>Strophitetras</i>	

No. 888. E. Para River S. A.

1st recorded by J.W.B. on new card 16.

$\frac{59}{61}$ Denticella

$\frac{60}{40}$ Nitochia punctata ($\frac{1}{2}$ a valve)

2nd recorded by L.W.B. with Inalwood's Finder

$\frac{27}{33}$ Denticella binaria (good) just S. of Cyclotella

$\frac{47}{18}$

Pleurosigma

$\frac{31}{13}$ Nitochia punctata (frag.)

No. 889 F. Para River S.A.

By Indicator

$\frac{31\frac{1}{4}}{73\frac{3}{4}}$

Navicula septenaria

(3 cards)

By Inaltwood

$\frac{35}{28}$

Enpodiscus

$\frac{29}{26}$

Rad. septenaria

No. 890 G. Para River S.A.

$\frac{60\frac{1}{2}}{26}$

Enpodiscus

side view of two frustules

No. 891. H. Para River S.A.
 Dry Indicator Cond. W.
 $\frac{64\frac{1}{2}}{16\frac{3}{4}}$ *Tricervalium* *shadboetii* S.E. of long brown spot.
 $\frac{59\frac{1}{2}}{24\frac{1}{8}}$ *Surirella*
 $\frac{56}{21\frac{1}{4}}$ " S of I. fauns
 $\frac{55\frac{1}{4}}{63\frac{2}{3}}$ *Striatella*?
 $\frac{50\frac{1}{2}}{30\frac{1}{8}}$ *Surirella*
 $\frac{41\frac{1}{8}}{26\frac{3}{4}}$ *Nitschia*
 $\frac{48\frac{3}{4}}{30}$ *Stenoptera* *cardinalis*

Dry Mulleroid's Index L.W. 13.
 $\frac{22}{34}$ *Pinnularia* (with very gibbous center)
 $\frac{17}{30}$ *Striatella*? *Rhabdonema*
 $\frac{8}{35}$ *Surirella*
 $\frac{10}{16}$ *Nitschia* with strong transverse bars
 $\frac{33}{28}$ *Stenoptera* *cardinalis*
 $\frac{34}{24}$ *Zygoceros* front & end views
 $\frac{26}{24}$ *Syringidium*

No. 892. J. Para River, S.A.

$\frac{49}{70}$ Eupodiscus
 $\frac{59\frac{1}{8}}{21}$ Surirella ~~guatemalensis~~

No. 893. J. Para River, S.A.

$\frac{37}{75\frac{1}{4}}$ Syringidium Card St. new

$\frac{44\frac{1}{2}}{78\frac{1}{4}} = 77$ Polymyxos sub air

$\frac{44\frac{3}{4}}{79\frac{1}{2}}$ Syringidium

$\frac{48}{44\frac{1}{2}}$ Ditylum

$\frac{53}{63}$ " top view

$\frac{55\frac{1}{2}}{44\frac{1}{2}}$ " side view

$\frac{58}{45\frac{3}{4}}$ Denticella

$\frac{58\frac{3}{4}}{80\frac{1}{3}}$ Triceratium Chadboltonii side view

$\frac{58\frac{3}{4}}{64\frac{1}{8}}$ Syringidium 2 specimens

$\frac{63\frac{1}{4}}{63\frac{3}{4}}$ Syringidium simplex

$\frac{64\frac{1}{2}}{66\frac{1}{2}}$ "

$\frac{63}{43\frac{3}{4}}$ " By Maltwood

$\frac{64\frac{3}{4}}{49\frac{3}{4}}$ Coscinodiscus $\frac{17}{29}$ Ditylum trigonum

$\frac{65}{46\frac{1}{8}}$ Triceratium Chadboltonii $\frac{33}{1}$ " "

$\frac{65}{57\frac{3}{4}}$ large Polymyxos

$\frac{65\frac{1}{8}}{49}$ $\frac{1}{2}$ of a valve of Nitochia

No. 894. K. Para River xxx

$\frac{24}{19}$ Triceratium Shadbolui S. N.

$\frac{30}{23}$ Pinnularia resembles P. nobilis

$\frac{24}{25}$ Amphitetras cuspidata

$\frac{24}{25}$ Navicula

recorded by L. W. Bailey with Maltwood's Index

No. 895. L. Para. S.A.

By Malinowski Smiles

$\frac{89}{116}$	<i>Smirella</i>	fragt.
$\frac{30}{15}$	<i>Piddalphia</i>	2 processes 1 spine
$\frac{29}{20}$	<i>Prinularia</i>	large & resembling <i>P. notilis</i>
$\frac{34}{14}$	<i>Smirella</i>	<i>decora</i> ? Ehr.
$\frac{17}{23}$	<i>Navicula</i>	with cuneate ends
$\frac{84}{31}$	<i>Lygoceros</i>	<i>hemitropa</i> (good)
$\frac{30}{27}$	<i>Empodiscus</i>	<i>radiatus</i>
$\frac{42}{36}$	<i>Strophora</i>	Fig 1 of Plate

No. 896. M. Para, S.A.

$\frac{71}{144} \frac{3}{4}$	<i>Empodiscus</i>	oblique view (24)
$\frac{61}{78} \frac{1}{2}$	<i>Phyomyxos</i>	<i>transyi</i> with air see us of page

By Malvern's Index

No. 897 N. Para. S.A.
 24 *Sursirella*
 19
 14
 18
 25 *Syringidium americanum*
 20
 23 *Sursirella*
 17
 30 *Oncosira punctata*
 25

By Malvern's Index

No. 898 O. Para S.A.
 24 *Amphiletras cuspidata* end view
 13
 30
 9
 31
 13

No. 899. P. Para River S.A.

No. 900. Q. Para River S.A.

24 Dentocella tridentata
30

By Muller's S.

No. 901. P. Para River S.A.

No. 902 S. Para River S.A.

33 *Serpimoe*

by Dr. Maltwood's Finder

33

18 *Ennotia miserorum* (frag.)

27

No. 403 T. Para River S. A.

$\frac{31}{26}$ *Denticella himachia* B.

$\frac{43}{33}$

$\frac{44}{34}$ *Syringidium americanum*

$\frac{44}{33}$ *Dictyocha fibula*

$\frac{42}{22}$ *Syr. americanum* (good)

$\frac{45}{22}$ " "

$\frac{14}{28}$ " "

$\frac{20}{31}$ *Zygoceros hemitropa* B.

$\frac{18}{21}$ *Prinnularia*

$\frac{17}{27}$ *Actinocyclus serianus*

$\frac{19}{16}$ *Stenoptera*

By Mallon's Index

fig 32 of Plate

No. 904 M. Para River S.A.

$\frac{35}{29}$ Amphora oblecta?

$\frac{28}{29}$ Navicula firma?

No. 905 V. Para River S.A.

27 fathoms

No. 906

N.

Para River S. A.

Surface water mouth of River

No. 907

N.

Para River S. A.

No. 908

Y.

Pura River S. A.

No. 909.

Z.

Pura River S. A.

No. 910 H' Para River S.A.

San Antonio Bay, Lat. $1^{\circ}14'15''$ S Lon $48^{\circ}21'15''$ W.

No. 911. D' Para River S.A.

$\frac{39}{25}$ Terplinoë fig 54.

No. 912 C' Para River S.A.

By Mulwood

39 *Eunotia* nearly fig. 27
34

38 *Diodadia cupreolus*
33

40 *Syringidium americanum*
35

42 *Triceratium* { resembling *T. Shadboetii* but
19 { with no spines

14 *Triceratium Shadboetii*
15

No. 913 D' Para River S.A.

47 *Cyclotella* Fig. 4 of Plate
21

10 *Syringidium americanum*
12 + small *Amphitetras*
a colored *Stetionocylus*

13 *Syringidium amer.*
13

28 *Leptodire* not like any in Plate
24

18 Large *Polymyxos* Fig. 59
35

16 *Syringidium simplex*
35 35

No. 914 E' Para River S.A.

$\frac{33}{16}$

La. Shadbaltii

$\frac{44}{23}$

Los. gigas

$\frac{48}{35}$

Zygoceros end view

$\frac{28}{32}$

Stctinoptychus fine

$\frac{14}{9}$

Terpsimæ Fig. 46

$\frac{32}{22}$

Ceratulus turgidus

$\frac{34}{21}$

Fig. 29 to Wof Leoscim.

$\frac{47}{15}$

Emotia

No. 915 H' Para River S.A.

$\frac{59\frac{1}{2}}{8\frac{1}{2}}$	Ditylenus	top view small narrow epineur
$24\frac{3}{2}$	Lurirella	
$\frac{72}{18}$		like fig. 34
$\frac{42}{73\frac{1}{3}}$	Pinnularia	elliptical
$\frac{149\frac{3}{4}}{109\frac{3}{4}}$		
$\frac{53\frac{2}{3}}{80\frac{2}{3}}$	Emotia	fig. 28

27 (by Mallwood) Fragillaria constricta?

No. 916. H' Para River S.A.
Gosmodisens

No. 917 No' Para River S. A.

No. 918 I' Para River S. A.
washed from coarse sandings

No. 919 J. Para River S.A.

25 Denticella? lennis

38 } 39 Denticella end view

45 } 12 " lennis front view

41 } 17 Ditylum irregulare U.E. of large Coscinodiscus

35 } 22 Navicula Fig. 24? of plate

31 } 29 Ditylum large end view

32 } 33 Triceratium alternans near a Ditylum

40 } 30 " " 2 valves

140 } 3/4 Denticella lennis 2 portions

50 = B. Baileyi

By Mallwood

By Indictor

No. 920 K. Para River S. A.

Indicator

$\frac{64\frac{7}{8}}{28}$ Diploneis (in ring)
 $\frac{58\frac{1}{4}}{20\frac{1}{4}}$ Navicula " fig 21.
 $\frac{60\frac{1}{8}}{14\frac{1}{4}}$ Coscinodiscus very thin & faint
 $\frac{48}{37\frac{2}{3}}$ Syringidium
 $\frac{46}{40}$ Ditylum side view
 $\frac{38}{21}$ Navicula fig 20
 $\frac{34\frac{1}{2}}{24\frac{1}{4}}$ Triceratium Chadboettii
 $\frac{36\frac{1}{4}}{35\frac{1}{8}}$ " "
 $\frac{34}{38\frac{1}{2}}$ Ceratulus
 $\frac{44\frac{1}{2}}{2\frac{1}{4}}$ Amphitetras

$\frac{12}{35}$ Syringidium americanum

$\frac{10}{28}$ " simplex

$\frac{8}{28}$ Denticella trinacria

$\frac{20}{26}$ Cymbella

$\frac{24}{25}$ Prinnularia? (with 2 dots at the ends)

$\frac{27}{27}$ Denticella 4 processes - 4 spines

$\frac{31}{26}$ Navicula panduriform

$\frac{23}{29}$ Navicula lineolata? Ehr. Fig. 21 of Plate

$\frac{24}{29}$ Ditylum trigonum F. 11

$\frac{18}{30}$ " end view near a Polymyxos

$\frac{10}{14}$ " " " large

$\frac{40}{7}$ Triceratium Chadboettii

$\frac{18}{8}$ " "

$\frac{17}{31}$ Coscinodiscus lentus un Eupodiscus?

$\frac{43}{16}$ Ditylum

$\frac{24}{8}$ N. bacillum? Ehr.

" { Chaetoceros Fig. 20 of Plate -

$\frac{6}{18}$ Amphitetras cuspidata?

By Mallenbach & Ender

No. 920

K. 1 Para River S.W.

(Continued)

Muller.

11
18 Diploneis

14
20 Amphitetras?

13
23 Denticella 4 processes 2 spines

13
23 " Amacia

11
25 Spongiolites agaricus

No: 921 L. Para River S. A.

22 Syringidium curgidum L. W. B.
37

unlike any in Plate

25 Coscinodiscus? with gibbons centre
34

26 Tr. alternans
34

27 Dentocella himacria (good)
24

No. 922

Vi' Para River S. A.

- 35-
33 *Coscinodiscus lennis* B.
30
28 " ?
33 *Dicladia mammillaria* V S. of black spot
24
32 *Zygoceros hemitropa* ✓
25
36 *Tr. S. adbaetic* ✓
27
37 *Ditylum trigonum* ad, view
27
37 *Did. trinacria*
26
16 *Milnechia* (examine again)
34
30 *Terpsinoë?* slightly resembling fig. 54
37
37 *Biddulphia* 4 processes - 4 spines
38
23 (what is the large round body?)
40
26 *Denticella trinacria* 2 spines long
40
34 *Amphitetras cuspis* SV. good
41
9 *Syringidium*
7
15 *Terpsinoë* fig. 48
9
1 *Zygoceros hemitropa*
10
10

No. 923 N. Para River S. A.

¹³/₃₅ *Syringodium*

" *Polymyces* 4 cones

¹⁶/₃₇ *Triceratium alternans*

No. 924 O. Para River S. A.

Polymyces maurici

No. 925 P' Para River S.A.

14 Snirella
22

11 Melosira granulata with spine
22

11/12 Cyclotella differs from Fig. 4 of Plate
22/22

11 Xanthopyxis
21

10/11 1 valve of Stenanthus
21/21

10 Snirella
18

18/19 Melosira interrupta
28/28

Ditylum trigonum end view

19 Cyclotella (S.V. with undulation)
2/9

13 Snirella
33

15 Dieladia Capneolus?
34

14/14 Snirella

69/4

37 Snirella splendida?
62/2

By Muller

No. 926 Arctic 1 a Lat 48° 12' N. 49° 45' W.
natural state

No. 927 Arctic 1 b Lat 49° 12' Lon 49° 42' W.
light parts, natural state 466 fath

No. 928 Arctic 2a Lat. $49^{\circ} 40' N.$ Lon $48^{\circ} 29' W.$
natural state 1080 fath.

No. 929. Arctic 2b. $49^{\circ} 36' N.$ $49^{\circ} 15' W.$
light parts, natural state. 732 fath.

No. 930 Arctic Is. $49^{\circ}40' N.$ $48^{\circ}29' W.$
Natural state 1080 fath.

No. 931 Arctic Is. $49^{\circ}40' N.$ $48^{\circ}29' W.$
light part natural state

No. 932 Arctic H. w. 49° 49' N. 46° 43' W.
natural state 1590 Fath.

No. 933 Arctic H. b. 49° 49' N. 46° 43' W.
light part natural state 1590 Fath.

No. 934 Arctic 5 $2. 49^{\circ} 49' N. 45^{\circ} 54' W.$
Natural state 1827 Fathoms

No. 635 Arctic 6a $49^{\circ} 50' N. 44^{\circ} 43' W.$
Natural state 1627 Fathoms

No. 936 Arctic Cb. $49^{\circ}50' N.$ $44^{\circ}43' W.$
with acid heaviest part 1627 fath.

No. 937 Arctic Cc $49^{\circ}50' N.$ $44^{\circ}43' W.$
with acid light part 1627 fath.

No. 938 Arctic fa $51^{\circ}43'N$. $13^{\circ}44'W$.
Natural state 255 Lath.

No. 939 Arctic f b. $51^{\circ}43'N$. $13^{\circ}44'W$.
with acid heaviest part 255 Lath.

No. 940 Arctic y b' 51°43' N. 13°44' W.
Natural state 255 Fath.

No. 941 Arctic y c 51°43' N. 13°44' W.
with acid heavy part 255 Fath.

No. 9421. Arctic Id. 51°43' N. 13°44' W.
with acid heavy part 255 fath.

$\frac{53\frac{3}{4}}{76\frac{3}{4}}$ *Coscinodiscus borealis*: B.

$\frac{55\frac{1}{2}}{70}$ *Pterocodon*?? fragt.

$\frac{55\frac{3}{4}}{65\frac{1}{4}}$ *Coscinodiscus* sc-iridis

$\frac{57\frac{3}{4}}{78}$ *Encyrtidium* reticulatè & granulatè

$\frac{46\frac{3}{4}}{73\frac{3}{4}}$ " *anritum*? var.

$\frac{44\frac{1}{2}}{70\frac{1}{2}}$ " "

$\frac{44\frac{3}{4}}{74\frac{1}{2}}$ Net work of? Coarse circular meshes.

seen. *Coronella atlantica* et profunda
Rhizosolenia decurrens.

No. 943. Arctic Is. 51°43' N. 13°44' W.
with acid heaviest part.

- $\frac{44\frac{1}{4}}{80\frac{3}{4}}$ *Loxostomum borealis?*
 $\frac{51\frac{1}{2}}{66\frac{3}{4}}$ *Encyrtidium*
 $\frac{54\frac{3}{4}}{75\frac{1}{2}}$ *Coronula profunda* good one
 $\frac{54\frac{1}{4}}{63\frac{1}{4}}$ *Halicalyptus*
 $\frac{52\frac{3}{4}}{65}$ *Encyrtidium* reticulated + granulate
 $\frac{52\frac{1}{2}}{73\frac{1}{4}}$ *Encyrtidium auritum?*
 $\frac{51\frac{3}{4}}{82\frac{1}{4}}$ *Coronula atlantica?*
 $\frac{51\frac{1}{2}}{65\frac{1}{2}}$ *Loxostomum crassum?*
 $\frac{49\frac{1}{4}}{80\frac{1}{4}}$ *Spongiolite* whole
 $\frac{47\frac{3}{4}}{69}$ *Encyrtidium auritum* B.
 $\frac{46}{29\frac{1}{4}}$ *Dictyophimus?* top view
 $\frac{45\frac{3}{4}}{29\frac{3}{4}}$ *Codium marinum* B. fine stipes
 $\frac{42\frac{1}{4}}{78\frac{1}{4}}$ *Loxostomum crassum* B. good one.
 $\frac{42\frac{3}{4}}{69}$ *Rhizidemia decurrens* 2 specimens
near a black spot, and piece of silica
 $\frac{41\frac{1}{2}}{65\frac{1}{2}}$ *Encyrtidium* reticulate good.

No. 944 Arctic Yf Lat. 51°43' Lon. 13°44' W

with acid mixed heavy + light parts

- $\frac{48}{81}$ *Coscinodiscus* with air bubble
- $\frac{50\frac{1}{2}}{76}$ *Coscinodiscus*
- $\frac{58\frac{1}{2}}{63\frac{1}{4}}$ *Rhizosolenia decurrens* B. N.W. of small black spot
- $\frac{57\frac{1}{2}}{62\frac{1}{2}}$ *Encyrtidium* reticulatus + granulate
- $\frac{57}{83\frac{3}{4}}$ *Encyrtidium arsitum*? Ehr.
- $\frac{56}{78\frac{3}{4}}$ *Dictyophimus*? with spiny processes.
- $\frac{55\frac{1}{2}}{79\frac{1}{2}}$ *Coscinodiscus borealis*? large
- $\frac{54\frac{1}{2}}{85}$ *Cosmuntella atlantica*
- $\frac{54\frac{1}{2}}{84}$ *Codium marinum* S.E. of air bubble
- $\frac{54\frac{3}{4}}{70\frac{1}{4}}$ *Coscinodiscus*
- $\frac{54}{68}$ *Halicalyptera*?
- $\frac{53\frac{3}{4}}{85\frac{1}{4}}$ *Encyrtidium Tritonis*? fragt.
- $\frac{52\frac{3}{4}}{62\frac{1}{4}}$ *Halicanya*
- $\frac{52}{77}$ " oblique view
- $\frac{49\frac{1}{4}}{88}$ *Flustrella*
- $\frac{46\frac{3}{4}}{86\frac{1}{4}}$ *Codium marinum* coarse striae
- $\frac{46\frac{3}{4}}{64\frac{1}{4}}$ *Cosmuntella fuscella*
- $\frac{42\frac{1}{2}}{73\frac{1}{4}}$ *Coscinodiscus crassus*?
- $\frac{42\frac{3}{4}}{68\frac{1}{2}}$ "
- $\frac{42}{62\frac{3}{4}}$ " *marginalis*? Ehr.
- $\frac{41\frac{1}{2}}{74}$ " *borealis* B. good.
- $\frac{38\frac{3}{4}}{75\frac{1}{4}}$ " "

No. 945 Barrow Strait. S. a. $74^{\circ}30'$ Lon. $94^{\circ}16'$ W.

Assistance Bay, muddy bottom in 7 fathoms.

$\frac{46\frac{3}{4}}{36\frac{1}{4}}$ $\frac{1}{2}$ w small : graminatophora. Some
fields 5.8 in μ mic. w Stenoptera?

$\frac{46\frac{3}{4}}{32\frac{3}{4}}$ Gyrodigma long + narrow

$\frac{47}{21\frac{1}{4}}$ Hyalodiscus?

$\frac{47}{38\frac{1}{2}}$ Coscinodiscus with rays projecting from
the edge - small. new?

"8 sundy Sigmoids which nobody can
name at least I cannot."

No. 946 S. b.

Sand from North pole, Capt. Parry.

No. 947 Sea of Kamtschatka A.s. 900 Fath.

$\frac{53}{75\frac{7}{8}}$ Ceratospyrus? drawn

$\frac{51\frac{3}{4}}{81\frac{1}{3}}$ " ?

" 2 Coscinodisci

$\frac{34\frac{1}{2}}{61}$ Ceratospyrus?

$\frac{46}{65}$ Encyrtidium

No. 948 Sea of Kamtschatka A.b. 900 Fath.

$\frac{45\frac{1}{2}}{76}$ Heteromphalus Brookeii

$\frac{41\frac{1}{8}}{75\frac{7}{4}}$ Spongadiscus large one

$\frac{32}{85}$ Coscinodiscus oculus-iridis

" Heteromphalus Brookeii B. (U.E. of above nearly touching it)

No. 949. Sea of Kamtschatka. H.C. 400 Fathoms

62 Asteromphalus Brookei E. of air bubble

67 1/4

58 3/4

89

" Chaetoceros furcillatum B. just above the last.

51 1/8 Asteromphalus Brookei

28

" Chaetoceros furcillatum just below the last.

60 Asteromphalus Brookei near a black spot.

60 3/4

62 1/8

69 1/2

53

79

" Coscinodiscus subtilis? touching the above.

52 1/8 Asteromphalus Brookei, just above a horizontal Synedra, small but good.

76 7/8

51 3/4

61 3/4

46 3/4

76 3/4

Asteromphalus Brookei B. N.E. of an empty ring.

S.W. of S.E. of another

57 1/8 Asteromphalus Brookei B. N.W. of a Cosc. oc. iride

71

53

62 1/8

Chaetoceros furcillatum

N.E. of upper end of a Synedra

49

68 1/2

Dictyocephala? bit of net work.

No. 950. Sea of Kamtschatka H. d. 1700 Fath.

+1.5
64 $\frac{3}{4}$

Coscinodiscus

Asteromphalus Brookei B. good.

$\frac{66 \frac{3}{4}}{65}$

Cosc. crassus? B.

$\frac{55}{26 \frac{1}{2}}$

Cosc. borealis

$\frac{55}{21 \frac{1}{2}}$

Denticella unita Ehr.

$\frac{55 \frac{1}{4}}{20}$

Cosc. crassus!
Looking a *Cosc. occidens*.

$\frac{49 \frac{1}{4}}{70 \frac{1}{4}}$

Asteromphalus Brookei

$\frac{49 \frac{1}{4}}{26 \frac{1}{4}}$

Cosmitella

$\frac{45 \frac{1}{2}}{28}$

No. 951 Ste. Lat. 56° 46' N. 168° 18' E.

(Last washing, very fine slide) 2700 Fathoms.

$\frac{39}{88\frac{1}{2}}$ *Asteronphalus Brookei* B. W. of a long head

No. 952 Hancock No. 1. Str. of Sargas
29 Fath.

No. 953 Hancock 2. $30^{\circ}35' N.$ $130^{\circ}40' E.$

No. 954. Hancock 3. Lat $30^{\circ}35'$ Long. $130^{\circ}40' E.$

No. 955 Hancock No. 4.
Chaetoceros

22 fathms

$\frac{43\frac{1}{4}}{75\frac{1}{2}}$

No. 956 Hancock 5. 30° 35' N. 130° 40' E.
By floating

No. 957 Hancock 6. 30 Fathoms

Heteromphalus	47 ³ / ₄
Small one S.W. of 2 large brown spots.	81
Chaetoceros - view in angle between 2 spicules	46 73 ¹ / ₄
Chaetoceros, obscured E. of bubble	44 ³ / ₄ 26
Biddulphia	35 ¹ / ₂ 65 ¹ / ₂
Amphora	"
Chaetoceros fragt.	34 ¹ / ₂ 37 ³ / ₄

No. 958 Hancock 7.

No. 959 Hancock, 8.

No. 960 Vincennes - No 1 a. $66^{\circ} 36' 15''$ N. $170^{\circ} 02'$ W. 28 Fath.

No. 961 " 1 b. $66^{\circ} 36' 15''$ N. $170^{\circ} 02'$ W.
28 Fathoms

No. 962 Vincennes Ia. $41^{\circ}16'26''$ N. $146^{\circ}06'15''$ W. 28 Fathoms

No. 963 Vincennes Ia. $42^{\circ}05'27''$ N. $144^{\circ}37'15''$ W.
40 Fathoms

No. 964 Vincennes I. b. $72^{\circ}05'27''$ N. $174^{\circ}37'05''$ W.
40 Fathoms

No. 965 Vincennes I. c. $72^{\circ}05'27''$ N. $174^{\circ}37'05''$ W.
40 Fathoms

No. 966 Vincennes Id. $42^{\circ} 05' 27''$ N. $144^{\circ} 34' 05''$ W.

40 Fathoms

American Diatoms

No. 967 Slide 56. West Point N.Y.

53 3/4 Stauroneis Pauleyi Ehr. side view of a deformed specimen
 61 2/3 4 specimens of Surirella splendida
 58 1/4 Side & basal views, and one undergoing division.
 67 also Stauroneis Pauleyi, side view, good one.

52 Stauroneis Pauleyi, side view
 71 1/4 Surirella splendida edge view
 48
 37

No. 968.

B.

East River N.Y.

No. 969.

C.

Say Harbor, N.Y.

No. 970

D.

Hudson River

No. 971.

E.

Catskill N.Y.

No. 972

F.

Infusoria

Catskill Lake

No. 973

G.

Basin of Dog-Hole Fall Catskill.

No. 974

No.

Infusoria

Catskill Lake

No. 945

J.

Stream Hyde Park

No. 946

J.

Stream Hyde Park

No. 947. *Infusoria* K.

Jamaica Bay, L.I.

No. 948 L.

Remarkable circular disc from muds near
Rattles Head, Niagara-

No. 979.

U.

West Point, N.Y.

$\frac{55}{72 \frac{3}{4}}$

Navicula americana Ehr.

$\frac{51 \frac{1}{2}}{73 \frac{2}{3}}$

"

"

$\frac{45 \frac{3}{4}}{62 \frac{1}{4}}$

"

"

No. 980. N. West Point N.J.

- $\frac{62}{68}$ *Synedra Spectabilis*, broken
" *Primularia inaequalis*, touching the above
 $\frac{62\frac{1}{4}}{68\frac{1}{2}}$ *Spongolithis aspera*
" *Primularia Dactylus*? Ehr. just E. of last
 $\frac{59\frac{1}{4}}{85}$ { *Primularia nobilis* Ehr.
" *inaequalis*, at lower end of last.
" *Ennohia tetradon* E. of upper end of *P. nobilis*
 $\frac{60}{63\frac{1}{4}}$ *Primularia inaequalis*
" " *macilentata* Ehr. one at E. end of last.
 $\frac{56\frac{1}{4}}{64\frac{1}{4}}$ { *Spongolithis apiculata*
" *aspera*
 $\frac{56\frac{1}{4}}{74\frac{3}{4}}$ *Stauroneis Baileyi*
 $\frac{54\frac{3}{4}}{80\frac{1}{8}}$ " "
" *Amphidiscus Anchora* nearly touching last on lower side -
 $\frac{63\frac{3}{8}}{67\frac{1}{4}}$ *Cocconema asperum* Ehr.
" *Gallionella crenatum* Ehr. 2 frustules near W. end of last -
 $\frac{54\frac{3}{8}}{63\frac{1}{8}}$ *Primularia Dactylus*
" *Spongolithis acicularis* close to last.
" *Gomphonema nasutum* just below E. end of last.
 $\frac{54\frac{3}{4}}{29\frac{1}{4}}$ *Navicula Bailliana* Ehr.
 $\frac{57}{70}$ *Amphiprora navicularis* Ehr.
 $\frac{49\frac{1}{2}}{69\frac{3}{4}}$ *Navicula dilatata* Ehr. between 2 spec^{ms} of *Stauroneis* grav.
" *Stauroneis gracilis* one N.W. the other S.E. of last.
 $\frac{47\frac{1}{8}}{74\frac{3}{4}}$ *Gomphonema coronatum* Ehr. near end of *Prim. nobilis*.
 $\frac{47}{75\frac{1}{8}}$ { *Primularia nobilis* } forming a cross.
" *Cocconema asperum* }
" *Navicula amphigomphus* just above last.
" *Gomphonema turgidum* S.W. of last.
 $\frac{47}{80}$ - *Gomphonema coronatum* 2 specimens -

No. 981 C. West Point Bay

- $\frac{62}{71}$ *Prinnularia inaequalis* Ehr. 3 specimens
 $\frac{62\frac{1}{2}}{64\frac{3}{4}}$ *Eunotia tetradon* Ehr.
 $\frac{62\frac{1}{8}}{64\frac{1}{2}}$ *Prinnularia nobilis* Ehr. with a *Stauroneis* (its side by
" *Gomphonema turgidum* Ehr. S.W. of centre of last
 $\frac{60\frac{1}{2}}{68}$ *Prinnularia Dactylus* horizontal
" *Gomphonema turgidum* just below W. end of last
 $\frac{59\frac{3}{4}}{63\frac{1}{2}}$ *Prinnularia inaequalis*
" *Gomphonema coronatum* Ehr. just W. of middle of last
 $\frac{58\frac{3}{4}}{74}$ *Eunotia decaodon* just below a brown spot
 $\frac{57\frac{1}{2}}{62\frac{7}{8}}$ *Stauroneis Baileyi* Ehr. good one
 $\frac{53\frac{1}{4}}{80\frac{7}{8}}$ *Loeconema asperum* 2 specimens
 $\frac{52\frac{1}{4}}{81\frac{3}{4}}$ *Stauroneis Baileyi* Ehr. close to edge
 $\frac{51\frac{1}{4}}{72\frac{1}{4}}$ *Stauroneis Baileyi* Ehr.
" *Eunotia tetradon*
" *Gomphonema coronatum* Ehr. just above the last
" *Stauroneis Baileyi* 3 spec^{ns} S.W. of *St. Baileyi*
 $\frac{51}{68}$ " " "
 $\frac{49\frac{1}{4}}{64\frac{1}{4}}$ *Stauroneis Baileyi* Ehr.
" *Gullionella crenata* near lower end of last
 $\frac{49}{60\frac{2}{3}}$ *Prinnularia* (?) *Legumen*
" *Amphidiscus Rotata* just above W. end of last
 $\frac{44\frac{1}{4}}{27\frac{3}{4}}$ *Navicula dilatata* Ehr.
 $\frac{38\frac{1}{4}}{66\frac{1}{2}}$ " " W. of *P. nobilis*
 $\frac{49\frac{7}{8}}{70}$ *Gomphonema coronatum* Ehr. on right
" *turritis* " on left
 $\frac{41\frac{1}{8}}{56\frac{7}{8}}$ *Loeconema asperum* Ehr.
" *Navicula americana* broken close to the last.
 $\frac{41\frac{1}{8}}{63\frac{3}{4}}$ *Navicula Paullus* 2 sp.
S. of *Prinnularia* (*Dactylus*?)
W. of *P. nobilis*

No. 981

O.

West Point N.Y. (Continued)

$4\frac{5}{10}$
 $6\frac{3}{4}$

{ *Emotia granulata* Ehu
Epithemia

$\frac{39}{40}$

Spongolithis acicularis vertical
E. of 2 *Pinn^a inaequalis*

$5\frac{1}{2}$
 $6\frac{3}{8}$

Spongolithis aspera Ehu.

$4\frac{2}{2}$
 $6\frac{1}{2}$

Pinnularia major Smith 2 valves crossing

(*P. viridis* ??)

No. 982 J.
Leosemodiscus re

Ambroy N. J.

No. 983

L.

Stoboken, N. J.

No. 984

K.

Stoboken, N.J.

No. 985

S.

Stoboken N.J.

No. 986

J.

Milford, Conn.

No. 987

W.

New Haven, Conn.

Sigmoid Varietal.

No. 988

V.

Smithfield R. I.

No. 989.

VI.

Smithfield R. I.

$\frac{47}{65}$ $\frac{7}{8}$ Navicula americana Ehr.

$\frac{48}{62}$ $\frac{1}{2}$ $\frac{3}{4}$ Loecosema asperum Ehr.

" Amphidiscus Rotula W. of last.

$\frac{45}{76}$ $\frac{7}{8}$ $\frac{7}{8}$ Spongelithis apiculata

" Navicula Americana

$\frac{44}{73}$ $\frac{1}{4}$ $\frac{3}{4}$ Sirella splendida (obscured)

$\frac{42}{70}$ $\frac{7}{8}$ $\frac{1}{8}$ Sirella splendida (one edge broken)

" $\frac{41}{70}$ $\frac{1}{8}$ Primularia Dactylus W. of last

" " P. nobilis " "

$\frac{39}{71}$ $\frac{1}{8}$ $\frac{3}{4}$ Amphidiscus Rotula

" Primularia Dactylus Ehr. Several specimens surrounding the last.

$\frac{37}{73}$ $\frac{1}{2}$ Amphidiscus Rotula 2 specimens

" " Enothis monodora Ehr. between boxes

No. 990. K. Smithfield R.I.

- $\frac{63\frac{1}{4}}{66}$ *Stauroneis Baileyi*
" *Loxonema asperum* N. of last
- $\frac{62\frac{1}{4}}{74}$ *Stauroneis Baileyi*
" *Prinnularia costata* Ehr. N. W. of last
- $\frac{61\frac{1}{2}}{61}$ " *nobilis*
" " *Legumen* N. of last
- $\frac{62}{28\frac{1}{8}}$ *Stauroneis Baileyi*
" *Prinnularia dactylus* touching upper end of last
" " " 2 spec^{ms} just below St. Baileyi
" " *macilentata* N. of last
" *Spongodiscus apiculata* crossing the lower
P. *dactylus*
- $\frac{60\frac{7}{8}}{74\frac{2}{3}}$ *Synedra spectabilis*
" *Spongolithis apiculata* touching lower end of last
" *Loxonema asperum* touching last.
- $\frac{58\frac{1}{8}}{79\frac{1}{8}}$ *Prinnularia costata* Ehr. Close to edge of glass cover
 $\frac{57\frac{3}{4}}{74\frac{1}{2}}$ *Loxonema asperum*
 $\frac{57}{72}$ *Eunotia monodon*? Ehr. N. of a long piece of *Syn. spec* ^(*tabilis*)
- $\frac{44}{76\frac{1}{3}}$ *Prinnularia costata* Ehr. good one
" *Himantidium stenos* 2 specimens near last
- $\frac{42\frac{1}{8}}{60\frac{2}{3}}$ *Amphidiscus rotula* Ehr.
 $\frac{41\frac{2}{2}}{76\frac{2}{3}}$ *Synedra spectabilis*, one end broken
" *Himantidium stenos* (crossing the last)
- $\frac{41}{70}$ *Loxonema asperum*, three specimens.
" *Spongolithis apiculata* touching lower end of
middle one of last
- $\frac{39\frac{1}{2}}{72\frac{1}{2}}$ *Spongolithis acicularis*, with a fragt.
of *Prinn. costata* near it

No. 991

Y.

Roskam, Mass.

Filtered from Coccolate water.

No. 992

Z.

Ridgewater Mass.

No. 993 H. Low, N. Hampshire

- $\frac{58}{71\frac{1}{8}}$ *Navicula dilatata* Ehr.
" *Stauroneis gracilis* Ehr. lanching last.
 $\frac{51\frac{1}{2}}{69\frac{7}{8}}$ *Prinnularia nobilis* 2 spec. at obtuse angles.
 $\frac{53\frac{1}{8}}{64\frac{3}{4}}$ *Navicula dilatata* Ehr. large - yellowish
" " " Small one just above last
 $\frac{59\frac{7}{8}}{80\frac{7}{8}}$ " " large one good.
" *Stauroneis Phoenixenteron* S.E. of last
 $\frac{49}{78}$ *Eunotia serrulata*? Ehr. 18 teeth
 $\frac{46}{29\frac{1}{2}}$ *Navicula dilatata* Ehr.
" *Stauroneis gracilis* 3 spec. S.W. of last
 $\frac{44\frac{1}{8}}{75\frac{1}{2}}$ *Gomphonema coronatum* Ehr. N.E. of an oblong red mass.
 $\frac{49\frac{3}{4}}{70}$ *Prinnularia inaequalis*
" *Eunotia* 15 teeth

No. 994

D'

Lorr, New Hampshire

No. 995

C'

Blue Hill Pond No 11
Maine

No. 996 . D. Blue Hill Pond No 2
Maine

No. 997 E. Blue Hill Pond Maine

No. 998

F'

Blue Hill Pond, Maine

No. 999

G'

Blue Hill Pond, Maine

No. 1000 H. Blue Hill Pond, Maine

No. 1001 J. Blue Hill Pond, Maine

No. 1002 J' Blue Hill Pond, Maine

61	<i>Spongo lithus</i>	<i>retosa</i>	Ehr. 'cleaned'	several specimens
67				
51	<i>Prinnularia</i>	<i>gigas</i>	Ehr.	good one, nearly
29				between 2 air bubbles
44				
81 1/2				

No. 1003 K' (no locality)

Synedra undulata

No. 1004 L' (no locality)
Schinia obliquata

No. 1005 M.
Stauroneis Arctic Regions

No. 1006 N. 1. Arctic Regions
Tricentatus arcticus

No. 1007 O' 1. Seren River, Md.

No. 1046 Foreign Diatoms
Slide D'

Triceratium striolatum

$\frac{64\frac{1}{2}}{72\frac{2}{3}}$	"	"	Brightwell edge view
$\frac{63}{61\frac{1}{4}}$	"	"	Side view
$\frac{62}{69\frac{7}{8}}$	"	"	oblique view of 4 sided one
$\frac{60\frac{1}{2}}{74\frac{1}{2}}$	"	"	top view
$\frac{60\frac{1}{2}}{76}$	"	"	"

No. 1047 Q' Richford, Camanthen
Triceratium armatum

$\frac{59\frac{1}{2}}{85\frac{1}{8}}$ *Pinnularia musica* B. ?

16 1948

R'

Cherbourg.

$\frac{19\frac{1}{2}}{9\frac{3}{4}}$ Navicula Pandma

in the same field Amphitetras

$\frac{23}{99\frac{3}{4}}$ ($\frac{22}{99}$) Campylodiscus Thuretii = similans Greg.

" limbatus, same field

{ double heavy margin

$\frac{20\frac{1}{2}}{10\frac{1}{2}}$ ($\frac{20}{101+}$) Campylodiscus decorus

$\frac{19}{100+}$ ($\frac{19+}{99}$) Amphitetras - fine.

$\frac{28\frac{3}{4}}{103}$ ($\frac{29}{102}$) Enpodiscus Ralfsii

Casts of Polythalamia

No. 1049

Slide 1a.

Leon Springs, Texas.

U.S.G.P.S.

63 Grammostomum?

76 Textilaria

59 3/4 Grammostomum

78

56 3/4 Tubuli

64 1/2 Planulina?

55 1/2 Textilaria

71 1/4 fragment of a spiral Polyth.

55 1/4 Plumbaria? good one

73

45 1/2

81 7/8

No. 1959 Slide 1 b. Leon Springs N. Texas

$\frac{62\frac{1}{4}}{76}$ Spiroplecta - (large one near W. Edge of ^{slide} } U.S. Geol. B.S.

" " Small one N.W. of last

$\frac{61\frac{1}{4}}{70\frac{1}{4}}$ " spire broken off - broad one.

$\frac{59\frac{1}{2}}{80}$ Grammostomum? large opaque

$\frac{57}{76}$ " " "

$\frac{55\frac{3}{4}}{80\frac{1}{8}}$ Spiroplecta

$\frac{55}{70}$?

$\frac{55\frac{1}{2}}{68\frac{3}{4}}$ Textilaria

" Spiroplecta N. of last obscured

$\frac{53\frac{1}{4}}{78\frac{3}{4}}$ Textilaria thick walled

" Kolobria? E. of last

$\frac{51\frac{1}{2}}{75\frac{1}{2}}$ Planulina?

" Textilaria S. of last - slender one

$\frac{45\frac{3}{4}}{66\frac{1}{4}}$ Textilaria

$\frac{39\frac{1}{4}}{66\frac{1}{4}}$ Planulina?

" Textilaria slender one S.E. of last.

$\frac{37\frac{1}{2}}{74\frac{1}{2}}$ Textilaria

No. 1051 2 a. Jackson, Miss.

$\frac{63\frac{1}{4}}{68}$ *Syrinxia longirostris* Ehr. See Mich 1.32 II 22
 $\frac{56\frac{1}{2}}{13\frac{7}{8}}$ *Textilaria striata* with globules on side
 $\frac{54\frac{1}{8}}{66\frac{1}{4}}$ Crustacean (bivalve)
 $\frac{45\frac{1}{3}}{67\frac{3}{4}}$ *Grammostomum*? fragment retaining soft parts
 $\frac{42\frac{1}{2}}{80\frac{1}{8}}$ *Spiroplecta Roscula* Ehr. (good)

No. 1052 2 b. Jackson, Miss.

$\frac{59}{77\frac{1}{4}}$ *Spiroplecta Roscula* Ehr. fragt with spine
 $\frac{56\frac{1}{4}}{80}$ *Textilaria striata* Ehr.
 $\frac{55\frac{3}{4}}{74\frac{1}{2}}$ *Spiroplecta Roscula* Ehr.
 $\frac{54\frac{1}{2}}{60\frac{1}{4}}$ *Phanorostomum asperum*? Ehr. Mich. Tab. 32 fig 22
 $\frac{54\frac{1}{2}}{28\frac{1}{2}}$ *Spiroplecta Roscula* Ehr. fragt.
 $\frac{50\frac{3}{4}}{67\frac{1}{4}}$ *Grammostomum* large fragment.
 $\frac{59}{27}$ *Nodularia*, obscured as is spagne
 $\frac{44\frac{1}{4}}{60}$ *Grammostomum* good.
 $\frac{43\frac{1}{8}}{66\frac{1}{4}}$ *Spiroplecta Roscula* fragment.
 $\frac{42}{64\frac{3}{4}}$ large oral body?

No. 1053

3 a.

Alabama

Matrix of Lengsdon

63
78 1/3
Casts of -
Quinqueloculina

62 1/4
67 3/4
Planulina

" " broken just above last

62
86
Univalve shell

50
70 1/2
Guttulina 2 specimens

43 1/2
75 1/4
Spirulina

42 1/2
82
Grammostomum

40 7/8
75 1/8
Silicified Grammostomum - faint -

40
74 1/2
Spiral Polythal "

No. 1054

H. W.

Charleston S.C.

44 1/4	Globigerina	130 feet by stage
69 1/3		indicated
67 3/4	Uvigerina	
80 1/4		
65 3/4	"	
72 1/2		
64 3/4	Grammostomum	
75 1/2		
62 1/2	Nodosaria	
61 1/2		
61 1/2	Textularia	
72 1/2		
58 1/2	"	
83 1/2		
56 3/4	Dentalina?	
62		
56	?	
76 1/2		
55 1/2 stage	Spiroplecta	n. sp.
25=57	"	Same species, s. of last
55 1/4		
25=57 stage	Grammostomum	long one
55 1/2		
70 3/4	"	curved
54 3/4		
81	"	"
40 1/4		
59 3/4	Kotalina?	
39 3/4		
77 1/4	Textularia	long one.
36 1/3		
72 1/2	Grammostomum	long - good
36 3/4		
76 1/2	Spiroplecta	
35 3/4		
72 1/2	"	
36		
55 1/4		

No. 1055 H. b. Eocene of So. Carolina
with *Ostrea sellaiformis*

$43\frac{3}{4}$ East of a spiral *Polythalamia*

$75\frac{1}{4}$

55

$63\frac{3}{8}$

$51\frac{1}{2}$

$76\frac{1}{4}$

" " " "
green sand east of parallel tubes of a Coral?

No. 1056 H. c. Eocene of So. Carolina
with *Ostrea sellaiformis*

54 & spiral *Polythalamia*
 $81\frac{1}{4}$

No. 1057 H. d. Eocene of So. Carolina
with *Orthis bellaeformis*

$\frac{43\frac{1}{2}}{63}$ Cast of a spiral *Polythalamia*
 $\frac{56\frac{1}{2}}{76}$ " " pieces of a coral
 $\frac{57\frac{1}{2}}{27\frac{1}{2}}$ " " cells of a spiral *Polythalamia* fragt.

No. 1058 H. e. Eocene of So. Carolina
Drayton Hall

$\frac{60\frac{1}{2}}{74}$ Cast of spiral *Polythalamia* +
 $\frac{57}{65}$ " " *Grammostomum*, small but fine
 $\frac{55\frac{1}{2}}{65\frac{1}{8}}$ " " *Adosaria*
 $\frac{52\frac{3}{4}}{70\frac{1}{4}}$ " " small spiral
" " cells of *Grammostomum*, a fragt.
 $\frac{41\frac{7}{8}}{72}$ " spiral
 $\frac{40}{64\frac{1}{4}}$ " spiral, broken but good-

No. 1059 Fa. Eocene of No. Carolina
with *Scutella Syelli*

63 1/2	Green sand cast of <i>Eschara</i> ?
69 1/4	
60 1/4	Cast of <i>Leptilaria</i>
67 1/2	
60 3/4	2 casts of <i>Rotalia</i> ? small
60 1/4	
55 1/4	Cast " " large
78 1/4	
51	" " <i>Tubuli</i>
73 3/4	
48 3/4	" " <i>Spiroloculina</i> ?
77 3/4	
47 7/8	" portion of a spiral
62 1/4	
46 3/4	" spiral univalve mollusk
70 1/4	
42 1/4	" " <i>Rotalia</i> ?
36 1/2	
"	slight tubes (casts of cells of coral?)
36 3/4	Cast of <i>Eschara</i> ?
67 3/4	
"	" " <i>Rotalia</i> N. E. of last
"	" " <i>Tubuli</i> S. of last

No 1060 5 b. Eocene of No. Carolina
with *Scutella Lyellii*

54 ³ / ₄	casts of
28 ³ / ₄	Spiral mollusk
54	branching tubuli, curious
68 ¹ / ₂	
53 ¹ / ₄	Spiral Polychal.
76 ¹ / ₂	
57 ³ / ₄	Spiral " with pores
63 ¹ / ₄	

No. 1061 5c Eocene of No. Carolina
with *Scutella Lyellii*.

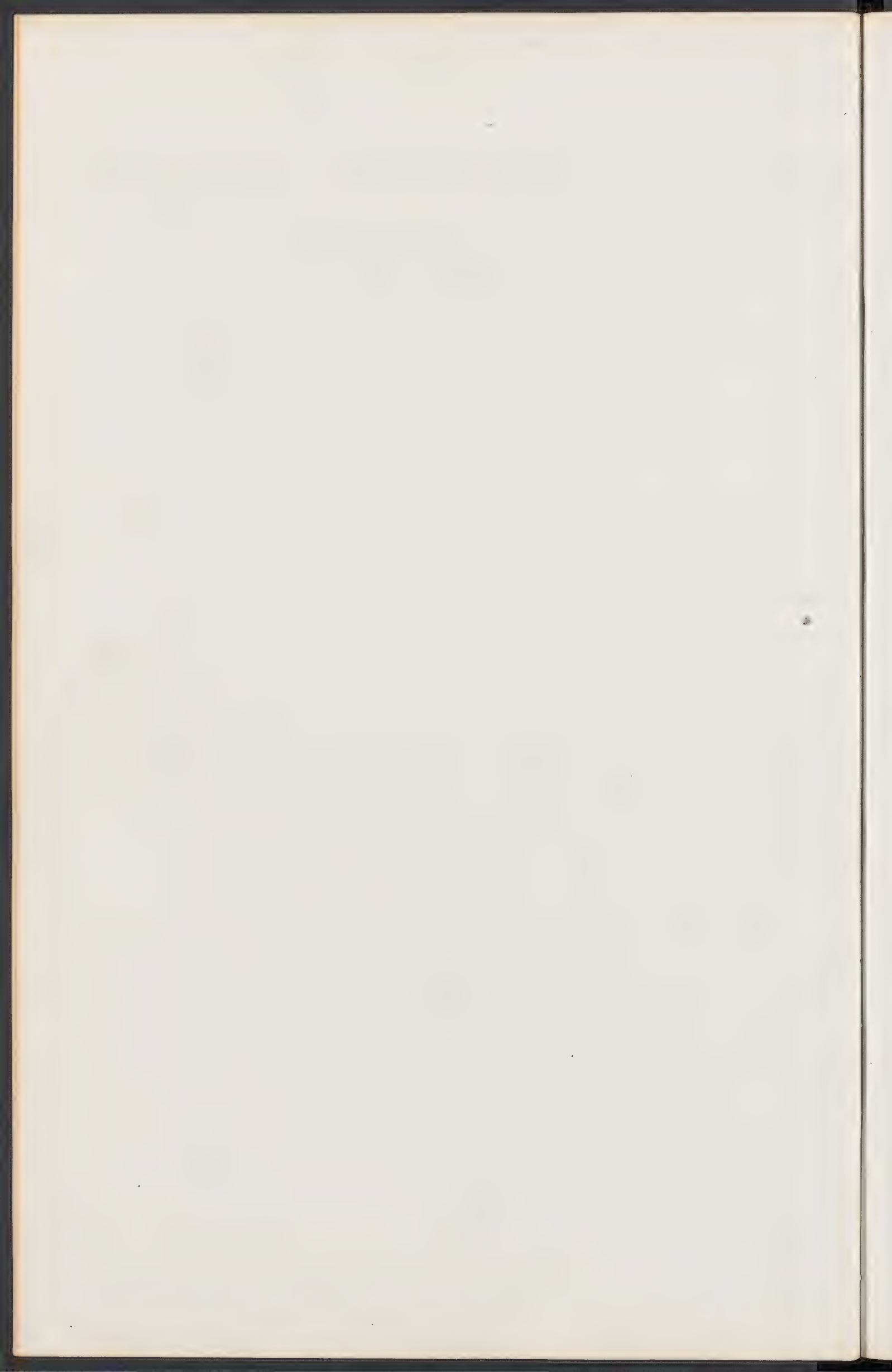
66 ³ / ₄	Casts of a spiral Polychelonia good
70 ¹ / ₂	" " Tubuli
58	" " pores of a coral? N. of last
80 ³ / ₄	" " spiral Mollusk
53	" " Grammostomum? N. of air bubble
29 ⁷ / ₈	" " " fragment good
48 ¹ / ₄	" " Spiral Pol. good
60 ¹ / ₂	" " tubuli E. of last.
48	" " Quinqueloculina? fine
73	" " Tubuli W. of last.
43	
74	
"	
47 ³ / ₂	" " Quinqueloculina? fine
70	" " Tubuli W. of last.
"	

No. 1062

5 d.

Eocene of No. Carolina
with *Santella Lyellii*.

Casts of *Polythalamia*



No. 1064 6 b. near Int. Holly N.J.

Casts of Polychaemia

$\frac{63\frac{3}{4}}{98\frac{1}{3}}$	large spirals, red cast
$\frac{63\frac{1}{2}}{64\frac{1}{4}}$	" " green sand
$\frac{61\frac{3}{4}}{73}$	" " red
$\frac{60\frac{3}{4}}{61}$	" " brown good one
$\frac{60\frac{7}{8}}{79\frac{7}{8}}$	" " green sand

Casts of Tubuli N.W. of last

$\frac{60}{81\frac{1}{8}}$	Lextilaria? fragt.
$\frac{51\frac{2}{3}}{61\frac{1}{2}}$	Spiral brown, good
$\frac{53\frac{1}{4}}{72\frac{3}{4}}$	Lextilaria? 2 fragments good
$\frac{52\frac{1}{4}}{66\frac{3}{4}}$	Spiral siliceous good
$\frac{51}{76\frac{1}{4}}$	Tubuli "
$\frac{59}{27}$	Spiral fragment good
$\frac{49}{23\frac{1}{4}}$	" 2 cells green others red
$\frac{49}{39}$	" light colored good
$\frac{46}{26}$	" dark brown "
$\frac{42}{79\frac{1}{2}}$	" red, fine
$\frac{41}{73\frac{1}{2}}$	" cells partly green, partly red
$\frac{36}{60\frac{3}{4}}$	" green sand fine.

No. 1065 Co. Near Int. Holly, U. S.

No. 1066 7a. Hesseberg, near Traneostein
Rusts of cells of *Stromatolites complanata*
left by action of Hel.

No. 1067 7b. Hesseberg near Traneostein
Rusts of cells of *Stromatolites complanata*

No. 1068 Jc Hessenberg near Trauenstein
Section of casts of cells of *Mammulites complanata*.

No. 1069 Jd. Hessenberg, near Trauenstein.
Casts of cells of *Orbitulites*, *Mammulites complanata*.

No. 1070 72 Nessenberg near Traneu Stein
Quarts of cells of Orbitulites complanata

No. 1071 Slide St. Johnson's Guano. Card B.
 $\frac{47\frac{1}{2}}{33\frac{1}{4}}$ Actinocyclus, with a circle of vacant spaces
fragment $\frac{1}{2}$ of disc $\frac{47\frac{1}{4}}{34}$
 $\frac{50}{20\frac{3}{4}}$ Coscinodiscus disciger
Strachnoidiscus japonicus $\frac{41}{63}$

No. 1042 D. Grano, Judge Johnson. (Card 46. recleaned.)

56	Antiscus	a little broken
44		
56	Antiscus	whole, S.E. of a <i>Cocconeis</i>
77 3/4		
53	Arachnoidiscus	
38 1/4		
57	Lithopora?	obscured. S. of a <i>Cocconeis</i>
80 3/4		
56	Halicalyptia	<i>Pelatus?</i> a fragment
81 (1882)		

<i>Cocconeis</i>	n.s.	} C.S.
<i>Arachnoidiscus</i>	"	

No. 1043 C. Johnson's Grano -
light portions

No. 1074

$40 \frac{3}{4}$
 $40 \frac{1}{2}$
 44
 $33 \frac{1}{8}$

D. Guano, from Chincho Is. Peru.
Aulacodiscus 3 feet
Chaetoceros

No. 1075

$45 \frac{3}{4}$
 $60 \frac{3}{4}$
 $42 \frac{1}{2}$
 $68 \frac{3}{4}$
 37
 $74 \frac{1}{4}$
 36
 $68 \frac{1}{2}$
 53
 $45 \frac{1}{4}$
 $42 \frac{3}{4}$
 67

E. Guano, Johnson, Cand. A.
Eulopyla australis
"
"
"
Grammatophora serpentina
" strong ribbed right

No. 1076

$50\frac{1}{2}$
 $39\frac{1}{2}$

F. Guano from A. S. Johnson
Rosomodiscus

No. 1077

G.

Peruvian Guano A. S. J. 1855

No. 1078

H. Peruvian Guano, Contd.

$\frac{32}{76 \frac{1}{8}}$ Amphitetras
 $\frac{64 + \frac{1}{4}}{79 \frac{1}{8}}$ one valve of another
 $\frac{44 \frac{3}{4}}{187}$ $\frac{45}{18}$ Eufodiscus? trapes (Johnson) Sill. Journal.

$\frac{54 \frac{3}{4}}{32 \frac{2}{3}}$ $\frac{35}{32 \frac{1}{2} (\frac{1}{4})}$ do.
 $\frac{52}{33 \frac{1}{2}}$ do blue epidermis partly removed;
 $\frac{31 \frac{1}{4}}{55 \frac{1}{2}}$ $\frac{31 +}{36 -}$ do perfect - look at it as spaque
 $\frac{50}{82 (\frac{1}{4})}$ do + unluco discens Peterfi? in one field, both perfect + beautiful

$\frac{60 (\frac{1}{8})}{20}$ Anluco discens Peterfi? with 3 ft. only
 $\frac{37}{90 \frac{1}{2} (\frac{1}{4})}$ " " large + perfect

$\frac{45 +}{24}$ Trachnoidiscens

$\frac{48}{62 \frac{1}{4}}$ Anliscens. gemine like the guano + Jedd
 (very species, also at Monterey)

$\frac{65}{45 \frac{2}{3}}$ $\frac{31 \frac{1}{2}}{23 (\frac{3}{4})}$ $\frac{51 \frac{1}{2}}{16 (\frac{3}{4})}$ $\frac{71}{16}$ $(\frac{70 \frac{3}{4}}{15 \frac{1}{8}})$ Anlisci? Same shell I sent before, but better specimens.

$\frac{45 (\frac{1}{8})}{84}$ Cosmodiscus?? with a handle (imperfect) same shell as in slide of though

$\frac{53 - 2}{36}$ Actinoptychus Supuba
 $\frac{57}{68}$ Hyalodiscus Californicus B. } C.S.

No. 1049 I. Peruvian Lwt. Grano.

1	$\frac{39\frac{1}{2}}{37}$	new? Eupodiscus? with 2 feet Anuliscus? Ceratulus?	$\frac{39\frac{1}{2}}{37\frac{1}{8}}$
2	$\frac{34}{43\frac{1}{2}}$	do do broken	$\frac{33\frac{3}{4}}{44}$
3	$\frac{36}{34}$	Triceratium distorted	$\frac{35\frac{3}{4}}{37}$
4	$\frac{35\frac{1}{2}}{38}$	Asteromphalus (double) 5 divisions	$\frac{35\frac{1}{4}}{38\frac{1}{4}}$
5	$\frac{40}{40+}$	Triceratium not distorted	$\frac{40}{40\frac{3}{4}}$
6	$\frac{41\frac{1}{2}}{88}$	" distorted differently	$\frac{41\frac{1}{4}}{87\frac{1}{4}}$
7	$\frac{44\frac{3}{4}}{23 (24\frac{1}{2})}$	Asteromphalus 7 div.	$\frac{47}{24}$
8	$\frac{52}{47}$	like nos. 1+2 good specimens	$\frac{51\frac{1}{2}}{47\frac{1}{8}}$
9	$\frac{39\frac{3}{4}}{32}$	do do	$\frac{39\frac{1}{2}}{32\frac{1}{2}}$
10	$\frac{43\frac{1}{2}}{50}$	Triceratium turning into a 4 ceratium	$\frac{43+}{50}$
11	$\frac{41}{34}$	" with a withered leg.	$\frac{40}{35+}$

No. 1080 J. Gnano, Chimcha Is. Peru.
8 divisions - A. S. J. 1850

No. 1081 K. Gnano, Sr. Pomasdale

No. 1082 L. Peruvian Guam. Dr. Vanardale

$\frac{57 \frac{7}{8}}{90 \frac{1}{4}}$ *Cladonaphodiscus*

near upper part of ring, ^{(air bubble} W. of small

$\frac{63}{84 \frac{3}{4}}$

Asteromphala. S. of large brown spot which
is at top of field of view,
when this shell is at centre-

$\frac{58 \frac{7}{8}}{78 \frac{1}{2}}$

Asteromphala, in line joining two
specimens of *Mesocoma*

No. 1083 M. Guam. Dr. Vanardale

No. 1084 N. Guano, Chiricha Is.
Dr. Vanusdale

$50 \frac{1}{8}$ *Actinodiscus* 3 feet
 $74 \frac{3}{4}$
 $43 \frac{1}{8}$ " 4 "

$85 \frac{1}{2}$ *Actinophaemia*
 $42 \frac{3}{4}$
 $34 \frac{1}{8}$ washed with Croton water

No. 1085 O. Guano. Patagonia
Dr. Vanusdale

No. 1086 J.
Ignited

Grano.

Patagonia
Dr. Vanusdale

No. 1087

L.

Grano

Schaboe

Dr. Vanusdale

No. 1088

R.

Grano.

Schaboe

Dr. Vanusdale

No. 1089

Infusoria

S.

Ichaboe

Gnans-

N. Deane

No. 1090

L.

Ichaboe

No. 1091

W.

Recent Infusoria from Schaboer Gnano.

No. 1092

W.

Recent infusoria from Saldanha Bay Gnano

No. 1093

N.

Recent infusoria from Guano Saldanha Bay

No. 1094

L.

Guano.

Arachnoidiscus Japincus

28 rays

No. 1095

Ny.

Grano.

$\frac{44\frac{3}{4}}{36}$

No 1096

Zy.

Grano.

Triceratium

No. 1097

H'

Guano

No. 1098

D'

Guano, Chincha Is.

No. 1099 C. Guano.
Chaetoceros new form

No. 1100 D. Guano, E. Coast of Africa
Eutopyla australis

No. 1101 E' From Geneva.
In balsam, July 26. Dr. Edwards N.Y.

No. 1102 F' Same as above

Fossil Polychaemia

No. 1103 Slide St. Monterey, California
 Extracted by means of potassa, from a greenish stone

$\frac{42}{69 \frac{7}{8}}$	<i>Rotulina macrostoma</i> B.	
$\frac{66 \frac{7}{8}}{85 \frac{1}{4}}$	<i>Grammostomum</i>	
$\frac{66 \frac{1}{8}}{64 \frac{1}{4}}$	large fragment of ?	
$\frac{67 \frac{1}{4}}{28 \frac{2}{3}}$	<i>Nonionina</i>	showing orifice
"	<i>Grammostomum</i>	E. of last
$\frac{65}{64 \frac{1}{8}}$	<i>Bulinina californica</i>	good one
$\frac{63 \frac{7}{8}}{71}$	"	another position
$\frac{63 \frac{1}{4}}{26 \frac{3}{4}}$	<i>Rotulina macrostoma</i> B.	
$\frac{62}{21 \frac{1}{4}}$	"	showing orifice
$\frac{56 \frac{1}{2}}{81 \frac{1}{8}}$	"	edge view
"	<i>Bulinina californica</i> B.	N. of last
$\frac{52 \frac{7}{8}}{30}$	"	good
$\frac{50 \frac{1}{2}}{20}$	"	"
$\frac{50 \frac{3}{4}}{17 \frac{1}{4}}$	<i>Rotulina macrostoma</i> B.	
$\frac{48 \frac{1}{2}}{69 \frac{1}{2}}$	<i>Bulinina californica</i>	
$\frac{46 \frac{1}{2}}{81 \frac{1}{4}}$	<i>Rotulina macrostoma</i> B.	Side view 2 specimens showing orifice
$\frac{46 \frac{1}{2}}{79 \frac{1}{2}}$	<i>Grammostomum capitatum</i>	
$\frac{46 \frac{3}{4}}{30}$	"	another species
$\frac{45 \frac{1}{2}}{86 \frac{3}{4}}$	<i>Bulinina californica</i> ,	fragment of a large one shows pores & sutures well.
$\frac{43 \frac{1}{2}}{43 \frac{1}{4}}$	<i>Bulinina californica</i>	good.
$\frac{43 \frac{3}{4}}{68 \frac{3}{4}}$	"	another species
$\frac{42}{23}$	<i>Grammostomum capitatum</i> B.	
$\frac{39 \frac{3}{4}}{8 \frac{1}{2}}$	<i>Rotulina macrostoma</i> B.	good basal view.
$\frac{38 \frac{3}{4}}{72 \frac{7}{8}}$	<i>Grammostomum</i>	nov. sp.
$\frac{39 \frac{1}{4}}{66}$	<i>Bulinina californica</i> B.	
"	<i>Rotulina macrostoma</i> B.	S. of last - top view
$\frac{39 \frac{7}{8}}{6 \frac{1}{3}}$	<i>Grammostomum capitatum</i> ? B.	

Slide St. continued

$39\frac{3}{4}$
 $2\frac{1}{2}$

Grammostomum? deformed?

37
 29

Pulimina 2 species:

$37\frac{1}{8}$
 $60\frac{1}{4}$

" another species

No. 1104 D. Monterey, Cal.

71 1/4
 185 3/4

Rotalina macrostoma D. edge view W. of last

64 +
 70 3/4

Pulimina californica: D.

66 3/4
 66 1/4

Grammostomum capitatum B. side view

66
 70 1/4

Rotalina macrostoma B. top view 2 spec. ^{and}

64 7/8
 75 1/4

Grammostomum broad one

62 3/4
 82 1/4

" large one broken

61
 64 2/3

" *capitatum* B

61
 67

" " side view

54 1/2
 68 1/3

" " small one

54 1/2
 89 1/2

Rotalina macrostoma B. oblique base view

54 7/8
 69 7/8

Grammostomum capitatum B. " horns distinct well

53
 63

Globigerina small one

53
 68 1/2

Pulimina californica

51 3/4
 80 1/4

Grammostomum capitatum B.

51 3/4
 89

Rotalina macrostoma B. juv E of last

49 7/8
 92 3/4

Pulimina slender one

48
 69 3/4

" *californica* B.

46 3/4
 77 1/2

Rotalina macrostoma B. 2 specimens

46 3/4
 70 7/8

Pulimina broad one

43 3/4
 67 1/4

Pulimina broad one

39 1/2
 61 1/2

" slender one

40
 74

" *californica* side view

38 7/8
 81 1/4

Grammostomum capitatum B.

36 1/4
 70 1/2

Pulimina broad one

2 showing orifice

P. (Continued)

$3 \frac{2}{3}$
 $6 \frac{5}{4}$
 $3 \frac{1}{8}$
 $8 \frac{1}{2}$

Dulimira

Slender

Grammostomum ?

nov. sp.

No. 1105

No. Monterey

62 ³/₄

Pulinina gracilis B.

69 ¹/₄

Grammostomum capitatum B.

62 ¹/₄

67 ³/₄

Pulinina gracilis B.

60 ³/₄

81 ¹/₄

59

" *californica*

66 ³/₄

Strophoceras

58

64 ³/₄

Rotaria macrostoma B. edge view showing orifice

58

66 ¹/₄

" " top view

54 ³/₄

66 ³/₄

" " oblique edge view good.

54 ¹/₂

62 ¹/₄

Pulinina gracilis B.

53

63

" "

52 ⁷/₈

67 ¹/₄

Grammostomum capitatum B. side view with orifice good

50 ¹/₂

62 ¹/₄

" " curiously deformed

41 ¹/₂

63 ¹/₂

Rotaria macrostoma B. oblique top view

35 ⁷/₈

76 ⁷/₈

Grammostomum capitatum B.

33

79 ³/₄

No. 1106

D. Monterey

$\frac{40}{160} \frac{1}{8}$	<i>Rolattina macrostoma</i> B. edge view
$\frac{62}{64} \frac{3}{4}$	<i>Grammostomum</i> broad one
$\frac{57}{27} \frac{3}{4}$	<i>Rolattina macrostoma</i> B. edge view with orifice
$\frac{59}{61} \frac{1}{8}$	" " oblique basal view
$\frac{44}{70} \frac{3}{4}$	<i>Pulimmina gracilis</i>
$\frac{45}{71} \frac{3}{4}$	" " "
$\frac{46}{68} \frac{7}{8}$	" <i>Californica</i> ? young
$\frac{44}{66} \frac{1}{2}$	" <i>gracilis</i> on left
"	" " 2 smaller ones
"	" <i>Californica</i> young? on right
$\frac{40}{65} \frac{1}{2}$	<i>Nonionina</i> ? small
$\frac{38}{14} \frac{3}{4}$	<i>Pulimmina Californica</i> B. edge view
$\frac{54}{62} \frac{7}{8}$	" " "
"	" " just??
$\frac{34}{60} \frac{1}{8}$	" <i>gracilis</i> ? 2 specimens.

No. 1107 E. Leon Springs, W. Texas.

- $\frac{58}{78}$ *Textilaria*
 $\frac{66}{72}$
 $\frac{55}{34}$ "
 $\frac{80}{34}$ Green Sand east of Polych^u N.E. of last.
 $\frac{55}{72}$ *Textilaria*
 $\frac{53}{34}$ *Textilaria*
 $\frac{66}{72}$ *Grammostomum*
 $\frac{53}{78}$ *Planulina* ?
 $\frac{52}{76}$ "
 $\frac{52}{78}$ "
 $\frac{48}{72}$ *Textilaria*
 $\frac{80}{72}$ *Phanerostronium* ?
 $\frac{49}{82}$ *Sporoplecta* touching last on S.
 $\frac{46}{62}$ "
" *Planulina* ? S. of last
" "
" *Textilaria* S. of last
" "
 $\frac{45}{34}$ "
 $\frac{61}{74}$ "
 $\frac{44}{72}$ { *Textilaria*, 2 specimens
 $\frac{72}{34}$ { *Planulina* ?
 $\frac{41}{74}$ *Textilaria striata* ? broken
 $\frac{85}{75}$ *Grammostomum*. large fragment E. of last.
 $\frac{34}{75}$ *Planulina* ? 3 specimens
 $\frac{35}{69}$ *Grammostomum*

No. 1108 F. Upper Missouri

Yellow Calc. Marl

$\frac{39\frac{3}{4}}{63}$ Phacroselomum dilutatum? good one.

Textilaria striata? just above last

$\frac{60\frac{7}{8}}{26\frac{1}{4}}$ Sproplecta Americana

$\frac{53\frac{7}{8}}$

$\frac{76\frac{1}{4}}$

No. 1109

G.

Upper Missouri -

Yellow Calc. Marl

No. 1110 H. Upper Missouri
Yellow Calc. Marl

No. 1111 I. Upper Missouri Yellow Calc. Marl

$64\frac{1}{2}$ Spiroplecta americana
 $67\frac{1}{3}$

62 " "

$72\frac{1}{4}$ " "
 60 Textularia missouriensis?
 $28\frac{1}{2}$

$58\frac{1}{2}$ " eurycomus?
 $29\frac{1}{2}$

$57\frac{3}{4}$ " gomphocoms
 $66\frac{1}{4}$

$55\frac{7}{8}$ " missouriensis
 $75\frac{1}{8}$

53 Phanerostomum

$77\frac{1}{4}$ " "
49 " E. of last
 $67\frac{1}{4}$

$41\frac{1}{8}$ Spiroplecta americana
 $78\frac{1}{8}$

$40\frac{1}{8}$ Phanerostomum lucerum?
 $70\frac{1}{2}$

No. 1112

J.

Columbus, Mississippi
Coarsest parts. 260 feet

No. 1113

K.

Columbus Mississippi
Coarsest parts. 260 ft.

No. 1114 L. Columbus, Mississippi

52 1/2 Nodosaria

} 140 ft.

19 1/4

Soft parts of a *Polythalamia*

47 1/4

63 1/2

No. 1115 Ab. Columbus, Mississippi 140 ft.

42 1/4

17 1/4

Spiriflecta Rosula Ehr. frag.

No. 1116 N. Columbus, Mississippi

Heavy part, 160 feet

$46\frac{7}{8}$ Dentalina + spinescens B. nov. sp.

$61\frac{3}{4}$

$47\frac{1}{2}$

84

Spiroplecta Rossula

[Slide no. 1116 has scratched in it the reading "140 feet". RKEagar 3/1978]

No. 1117 O. Columbus, Mississippi

Heaviest part, 260 feet.

No. 1118 J. Jackson, Mississippi

59 ³ / ₄	Nodosaria
216 ¹ / ₄	"
58	"
62 ¹ / ₂	"
54 ¹ / ₄	Grammostomum large one broken
78 ³ / ₄	" large one
52 ³ / ₄	" small (with black specks)
80	"
52 ³ / ₄	"
71 ² / ₃	"
52 ³ / ₄	Spiroplecta rosula, long fragment
24 ³ / ₄	" fragment
148 ¹ / ₄	"
75	"
47 ¹ / ₂	Grammostomum
82 ³ / ₄	"
42 ¹ / ₂	Spiroplecta rosula, with the spine-
76 ¹ / ₂	Textularia striata N. of last
"	"

No. 1119 Q. Jackson, Mississippi

- | | | |
|--------|----------------------|-------------------|
| 61 1/8 | Spiroplecta Rosula | |
| 67 | | |
| 60 | Spiral Polypetal | with projections |
| 72 3/4 | | |
| 58 | Spiroplecta Rosula | fragl. |
| 75 1/2 | | |
| 56 | " | with spine |
| 70 7/8 | | |
| 54 1/8 | Grammostomum | |
| 70 | | |
| 51 1/4 | " | |
| 66 3/4 | | |
| 52 | large spiral. | |
| 62 | | |
| 51 | Nodosaria Scorpiis?? | |
| 26 3/4 | | |
| 54 | Grammostomum | |
| 77 1/4 | | |
| 45 | Nodosaria? | |
| 68 1/4 | Textularia striata? | N. W. of last |
| " | | |
| 44 3/4 | ? | |
| 67 3/4 | | |
| 48 | ? spinose form | |
| 65 | | |
| " | Spiroplecta Rosula | fragl. N. of last |
| " | Textularia striata | S. of last. |

No. 1120 Q. Mission Station, Miss-

No. 1121 S. Same as above

No. 1122 J. Alabama

Matrix of Zenglodon

59 ¹/₄ good cast of a spiral Polychaetum shell

46 ³/₄ Cast of a Textilaria

82 ³/₄ " with concentric rings
46 ³/₄ / 72

No. 1123 U. Centreport Alabama

No. 1124

V.

Centrepot, Alabama

See

No. 1125

V.

Centrepot Alabama

$56\frac{1}{2}$ Dentalina ?
60

$55\frac{1}{4}$ "
 $69\frac{3}{4}$ "

$50\frac{1}{8}$ " ? large spinose one
27 $\frac{3}{4}$

62 Saginulina
67 $\frac{3}{4}$

No 1126 Y. Eocene of So. Carolina
Polythalamia with Ostrea belliformis

No. 1127 Y. cleaned with .02
Chalk

Fossil Diatoms

No. 1128

Slide 1a.

Richmond W. Va.

- | | |
|--------------------------------|--|
| 62 ⁷ / ₈ | <i>Coscinodiscus lineatus</i> near a large broken |
| 74 ¹ / ₂ | <i>Cos. oc. iridis</i> |
| 64 ⁷ / ₈ | <i>Coscinodiscus oculus-iridis</i> Ehr. |
| 70 | " <i>Gullionella sulcata</i> , column of 7 joints
(touching margin of last) |
| 68 ¹ / ₂ | <i>Craspedodiscus coscinodiscus</i> Ehr. |
| 70 ¹ / ₄ | |
| 68 ¹ / ₄ | <i>Coscinodiscus</i> ? |
| 69 ² / ₃ | |
| 63 ¹ / ₈ | <i>Navicula sigma</i> large one |
| 74 ¹ / ₂ | |
| 63 | ? curious fragment with coscinoid
marking of festooned margin. |
| 62 ³ / ₄ | <i>Heteropterychus</i> 22 rays. |
| 62 | |
| 84 ¹ / ₄ | |
| 59 ¹ / ₄ | <i>Craspedodiscus coscinodiscus</i> just above a
big air bubble |
| 64 ¹ / ₈ | |
| 58 ¹ / ₂ | <i>Sytlephania diadema</i> , seen obliquely
showing teeth |
| 65 ¹ / ₈ | |
| 57 ¹ / ₂ | <i>Coscinodiscus gigas</i> Ehr. with a small
<i>Cos. oc. iridis</i> over it |
| 57 | |
| 56 | <i>Aulacodiscus crux</i> - seen obliquely. |
| 69 ³ / ₄ | |
| 58 ¹ / ₈ | <i>Coscinodiscus perforatus</i> - broken on one side |
| 68 ¹ / ₂ | |
| 53 | <i>Coscinodiscus lineatus</i> |
| 62 ³ / ₄ | |
| 52 ³ / ₄ | <i>Coscinodiscus oculus-iridis</i> . |
| 60 ¹ / ₂ | |
| " | <i>Heterodiscus</i> seen obliquely S.E. of last |
| 50 ⁷ / ₈ | <i>Goniothecium odontella</i> Ehr. |
| 69 | |
| 50 ⁷ / ₈ | <i>Navicula sigma</i> Ehr. |
| 62 ¹ / ₃ | |
| 50 | { <i>Denticella</i> with spines. |
| 65 ² / ₃ | { <i>Dygoceros</i> ? |
| 49 ¹ / ₄ | <i>Polycistina</i> |
| 82 ¹ / ₂ | |
| " | <i>Chaetoceros</i> close to last on E. |
| 47 | <i>Mastogonia</i> 14 rays |
| 76 ³ / ₄ | |
| 49 ³ / ₄ | <i>Goniothecium odontella</i> |
| 69 | |
| " | " E. of last |
| 48 ³ / ₄ | " E. of air bubble |
| 82 | |
| 45 ³ / ₄ | <i>Heterocyclus denarius</i> - 10 rays. blue disc |
| 74 ³ / ₄ | |
| 43 ³ / ₄ | <i>Goniothecium odontella</i> Ehr. |
| 78 ¹ / ₈ | |

Slide 1a. (Continued)

46 $\frac{3}{4}$

Mastigonia Actinoptylemus

77 $\frac{1}{2}$

Triceratium obtusum Ehr.

46 -

74 $\frac{3}{4}$

Goniothecium odontella

38 $\frac{3}{4}$

Coscinodiscus gigas Small one.

79 $\frac{1}{4}$

Denticella tridentata Side view

37 $\frac{3}{4}$

Triceratium amblyoceros Ehr.

70 $\frac{1}{4}$

Goniothecium obtusum? Ehr.

44 $\frac{7}{8}$

71 $\frac{1}{4}$

43 $\frac{1}{2}$

67 $\frac{1}{4}$

40 $\frac{1}{4}$

72

No. 1129 Slide 1 b. Richmond Va.

- 44 1/2
64 1/2
55 3/4
80 3/4
58 1/2
80 1/2
51 7/8
71 1/8
66 1/2
29 7/8
64
60 7/8
" Actinocyclus biotouraris - blue disc, just below last
- 62 3/4
69 1/2
62 1/2
32 1/8
60 7/8
26 7/8
60
23 1/4
59 7/8
61
" Systephanina 2 specimens touching last
- " " showing teeth, S.E. of last on edge of field
- 58 7/8
67
58
30 2/3
57
73 3/4
54 1/4
63 1/8
53 3/4
29
" Triceratium
- 67
58
30 2/3
57
73 3/4
54 1/4
63 1/8
53 3/4
29
" Craspedodiscus Coscinodiscus Ehr.
- 57
73 3/4
54 1/4
63 1/8
53 3/4
29
" Gallionella sulcata Ehr. column of 10 joints touching a broken Cosc. oc. indid.
- 54 1/4
63 1/8
53 3/4
29
" Coscinodiscus punctatus Ehr. elliptical
- 53 3/4
29
" Rhizosolenia Americana
- " Fragilaria laevis just above last
- 45
26 3/4
38 3/4
66 3/4
38 7/8
26 1/8
" Polycistina
- 38 3/4
66 3/4
38 7/8
26 1/8
" { Denticella tridentata Ehr. between two
Biddulphia: Coscinodiscis
- 38 7/8
26 1/8
" Messena divora
- " Another n.w. of last partly obscured
- 36 3/4
74 1/4
35 1/2
74 7/8
" Triceratium amblyoceros Ehr.
- 74 1/4
35 1/2
74 7/8
" Craspedodiscus Coscinodiscus

No. 1130 1c. Richmond Va

35 1/4 Pyxidicula limbata Ehr.

63 1/3

63 3/4

63

Gomothecium adantella

This slide has numerous specimens of
Leoscinodiscus, of Physicolepta Americana

No. 1131 1d Richmond Va

54 1/2 Coscinodiscus gigas

82 1/2

52 1/2 Chaetoceros incurvus B.

76 1/2

" 2 long specimens of Synedra - crossing near
it on E.

48 7/8 Navicula sigma Ehr. 2 specimens

76

" Dieladia? clathrata Ehr. between last two

48 Navicula (Gyrosigma) sigma Ehr. near an

25 1/2

" empty ring - 2 spec^{ns} + part of a large one
Synedra capitata? Ehr. just under the big one
(in my microscope)

39 7/8 Dieladia? clathrata Ehr. See Mik. Pl. 18 fig 100

61 1/2

at bottom left, touching a Coscinodiscus which
is touching an Actinocyclus

42 3/4 Bacteriastrium with 8 rays still unbroken
65 2 wanting -

No. 1132

1st

Richmond Church Hills, Va

- 1 $\frac{64\frac{1}{2}}{71\frac{3}{4}}$ *Chaetoceros micurum*
- 2 $\frac{60\frac{1}{2}}{72}$ *Pyxidicula* (*Aethanopyxis?*) *limbata?*
- 3 " *Mesocena diodem* near last.
- 4 $\frac{55}{62\frac{1}{2}}$ *Coscinodiscus oculus-iridis*
- 5 " *Chaetoceros micurum* B. W. of last
- 6 " *Denticella tridentata* S. of last
- " *Coscinodiscus punctatus* Small one W. of No. 5
- $\frac{52\frac{1}{2}}{77}$ " *oc. iridis* large
- $\frac{44\frac{1}{4}}{82\frac{1}{2}}$ *Ditylum virginicum* B.
- $\frac{41\frac{3}{4}}{61\frac{3}{4}}$ *Denticella tridentata* Ehr.
- " " E. of last
- $\frac{40\frac{1}{8}}{83}$ *Triceratium amblyoceros*
- $\frac{35+}{68\frac{1}{8}}$ *Helmophyllum vicenarium*
record very incomplete

No. 1133 1 f. Richmond Va (Church Hill)

- $\frac{38}{84\frac{1}{8}}$ Curious spicule with net-work at base.
 $\frac{38\frac{1}{2}}{69\frac{1}{4}}$ Leucmodiscus oculus-iridis, large one with broken margin
 $\frac{54}{28\frac{1}{4}}$ Cyclotella n. sp.
" Actinocyclus senarius. Looking east.
" Mesoptera alternata B. S.W. of last near it.
" Navicula sigma W. of last two
 $\frac{62\frac{1}{2}}{65\frac{1}{4}}$ Stephanogonia (Small one W. of a bit of blue
 $\frac{61\frac{3}{4}}{75\frac{1}{4}}$ Actinocyclus 11 rays.
 $\frac{61\frac{1}{2}}{66\frac{1}{4}}$ Leucmodiscus oculus-iridis.
 $\frac{58\frac{1}{8}}{82}$ Actinocyclus pyxidicula Ehr. seen edgewise
W. of a bit of Pyxidicula
N. of Case. lineatus
 $\frac{58\frac{3}{4}}{80\frac{2}{3}}$ Actinocyclus 13 rays
 $\frac{58\frac{3}{4}}{26\frac{7}{8}}$ Empty ring
" Biddulphia neglecta B. inside of the ring.
" Systephania " " "
 $\frac{52}{73}$ Lamhiopyxis alata W. of large bit of Case.
 $\frac{52}{58}$ Gomothecium barbatum S.W. of 2 bits of Gredner
 $\frac{51}{24\frac{1}{3}}$ Actinocyclus pyxidicula
 $\frac{50\frac{1}{8}}{79\frac{7}{8}}$ Halcalypta virginicum
 $\frac{47\frac{1}{4}}{82\frac{1}{4}}$ Amphalopelta areolata? Ehr.

No. 1134 1 g. Richmond Va

$\frac{54 \frac{1}{8}}{78 \frac{3}{4}}$

empty ring)

S. W. of last, close to it.

$\frac{65 \frac{3}{4}}{79}$

Peristephanina edge view oblique

Coscinodiscus oculus-iridis - well centred

$\frac{60 \frac{7}{8}}{83}$

Dicladia

$60 \frac{3}{4}$ Stage

$\frac{58 \frac{1}{2}}{85 \frac{7}{2}}$

Craspedodiscus

$58 \frac{1}{2}$ "

$\frac{57 \frac{1}{3}}{77 \frac{1}{2}}$

Navicula (Syringona) sigma

$57 \frac{1}{4}$

$\frac{56 \frac{3}{4}}{67 \frac{3}{4}}$

Coscinodiscus gigas good well centred

Navicula sigma

$54 \frac{1}{2}$

$\frac{54 \frac{1}{2}}{75 \frac{7}{8}}$

Coscinodiscus oculus-iridis

$54 \frac{1}{2}$ Stage

$\frac{63 \frac{1}{2}}{79 \frac{1}{4}}$

" " "

$63 \frac{1}{3}$

$\frac{56}{76 \frac{7}{8}}$

Navicula sigma

56

$\frac{57}{81 \frac{2}{3}}$

N. of 2 Coscinodiscus

$\frac{54 \frac{1}{4}}{87 \frac{1}{4}}$

Craspedodiscus

$\frac{53 \frac{3}{4}}{84 \frac{1}{4}}$

Halimomma small, S. E. of last

$\frac{49 \frac{1}{8}}{63}$

Actinoptychus 18 rays

$\frac{49 \frac{3}{4}}{64 \frac{3}{4}}$

Gallionella sulcata Columnar

$\frac{50 \frac{1}{4}}{68 \frac{2}{3}}$

Peristephanina? with inner ring

$\frac{46 \frac{1}{2}}{91}$

Rhaphoneis rhombus - near end of a filament

$\frac{41 \frac{3}{4}}{71 \frac{3}{4}}$

Zygoceros?

$\frac{36 \frac{3}{4}}{83 \frac{1}{2}}$

Denticella tridentata : base view

No. 1135 1 h. Richmond Va
Sigmoid varicella in rings

No. 1136 1 i Richmond Va
(small slide)

$\frac{45}{63\frac{1}{4}}$ Coscinodisens

$\frac{45}{62}$ Heteropterychus with air

$\frac{50\frac{1}{2}}{74\frac{1}{2}}$ Varicella Sigma

$\frac{46\frac{1}{2}}{72}$ Coscinodisens

$\frac{51}{65}$ Gonothecium

No. 1137 1 j. Richmond Va

55-
60 1/2 *Gomothecium odontella*

60 1/2 *Helinoptychus* 20 rays?

70
66 1/2 *Coscinodiscus oculus-iris*

" " " " E. of last.

54 1/4
66 *Denticella tridentata* Ehr.

No. 1138. 1 k. Richmond Va.

$\frac{68\frac{3}{4}}{71\frac{1}{4}}$ *Losmodiscus oculus-iridis*, slightly oblique

$\frac{67}{89\frac{7}{8}}$ " " fine one

$\frac{67\frac{1}{2}}{72\frac{1}{4}}$ *Dentocella tridentata*

$\frac{67\frac{3}{4}}{63\frac{1}{8}}$ *Omphalopelta areolata* Ehr.

$\frac{65\frac{3}{4}}{84\frac{1}{4}}$ *Heteropterychus* blue 13 rings

$\frac{63\frac{1}{4}}{28\frac{1}{2}}$ *Gallionella sulcata* Ehr. column of 12 joints

$\frac{61\frac{2}{3}}{76\frac{1}{8}}$ *Losmodiscus gigas* small one.

$\frac{61\frac{1}{8}}{89\frac{7}{8}}$ " " "

$\frac{61\frac{1}{8}}{64\frac{1}{3}}$ *Isthmia obliquata*? a fragment

$\frac{59}{70\frac{7}{8}}$ *Dictyochea crux* touching an empty ring

$\frac{58}{61\frac{1}{8}}$ *Goniothecium barbatum* Ehr. S. of w. all
Cosc. oc. iridis

$\frac{58\frac{1}{4}}{63\frac{1}{4}}$ *Heteropterychus* blue disc 16 rings

" *Dicladium: clathrata* Ehr. S.W. of last in the corner

$\frac{58\frac{1}{8}}{76\frac{3}{4}}$ *Dictyochea crux* 2 specimens

" *Heteropterychus senarius* small S.W. of last

" " *septenarius* S.E. of the *Dictyochea*

" *Gallionella sulcata*, { numerous rings in same
field as above.

No. 1139 1 l. Richmond Va

- 49 ³/₄ Chaetoceros
- 70 ³/₄ Gracilodiscus
- 56 ⁷/₈ Stephanopyxis?
- 64 ¹/₄ Coscinodiscus oculus-iridis?
- 63 ¹/₄ " "
- 64 ¹/₂ " "
- 61 ³/₄ Rhaphoneis rhombus S. of last
- 67 " Denticella tridentata touching a Coscinodiscus
- 61 ³/₄ Rhaphoneis, long one, touching a bit of Coscinodiscus.
- 71 ¹/₂ bit of Coscinodiscus, showing structure vice versa.
- 57 " "
- 68 ¹/₄ " "
- 56 ³/₄ Coscinodiscus oculus-iridis good.
- 74 ¹/₂ " "
- 56 ³/₄ Coscinodiscus oculus-iridis
- 75 ¹/₄ " "
- 55 ³/₄ " "
- 77 " "
- 55 ¹/₃ Triceratium amblyoceros
- 73 ¹/₄ " "
- 54 " "
- 73 " "
- 39.2 Navicula (Pyrosigma) Sigma
- 78 ¹/₂ " "
- 34 ¹/₄ Mastogonia Small
- 77 ¹/₂ " "
- 34 Festooned disc - fragment N. of a Coscinodiscus
- 76 ¹/₄ } E. of a Chaetoceros

No. 1140 1 m. Richmond Va.

- 65 *Pinnularia* like *P. lyra* E. of air bubble
63
64 1/4 *Dietycha crux*
67 3/4
65 1/4 *Coscinodiscus linnæus*
60 1/8
65 *Navicula sigma* Ehr.
67 1/2
" fragment of? with festoons - E. of last
65 1/8 *Actinopterychus senaria* 2 specimens
66 1/4
" *Systephania* touching last
" *Navicula sigma*. just above the group of 3.
64 3/4 *Craspedodiscus coscinodiscus* Ehr.
26 3/4
" *Navicula sigma* - just below last
64 7/8 *Actinopterychus senaria*
62
63 1/2 *Navicula sigma* 2 specimens
68 1/4
" *Gullionella sulcata* - one ring near each of the last }
61 1/8 *Actinopterychus ceres* Ehr. 22 rays
65
61 1/4 *Chaetoceros* - just below a broken *Coscinodiscus*
64 1/2
61 1/4 *Coscinodiscus punctatus* (large one) elliptical
25
" " " Small one S.W. of last
58 1/8 *Triceratium amblyceros* - with a spine at each angle }
71
56 3/4 *Actinopterychus pedicularis* - 16 rays
25 1/4
51 3/4 *Dieladia clathrata*
80 1/2
53 1/2 { *Denticella tridentata*
62 1/8 { *Biddulphia*
49 1/4 *Rhizolenia* - very obtuse base - between two large fragments of *Coscinodiscus*
62 1/2
49 1/2 *Goniothecium* - - - - - turgid.
26 +
48 1/2 *Chaetoceros* N.W. of a *Coscinodiscus*
61 1/8
47 *Goniothecium* : *barbatum* Ehr.
64 1/2
" *Dietycha crux* - S.E. of last
46 1/4 *Goniothecium odontella*
22 3/4

No. 1140 1 m. (Combined)

- $\frac{45+}{82}$ *Coscinodiscus gigas* - (small) 2 valves overlapping
" *Peristephania* just above last.
- $\frac{43\frac{1}{8}}{72\frac{1}{3}}$ *Goniothecium Rogersii*
 $\frac{140}{80\frac{1}{4}}$ *Craspedodiscus coscinodiscus*
" *Coscinodiscus lineatus* on left of last
" *Navicula sigma* - 3 specimens above + on right of
C. coscinodiscus
- $\frac{38\frac{3}{4}}{67\frac{1}{4}}$ *Rhizosolenia americana*
" *Craspedodiscus coscinodiscus* } N. of last
" *Navicula sigma* }
- $\frac{38\frac{3}{4}}{61}$ *Denticella tridentata*
 $\frac{34\frac{1}{4}}{61\frac{3}{4}}$ *Actinopterychus Jupiter*
 $\frac{34+}{75\frac{3}{4}}$ *Chaetoceros* good one, S. E. of large air bubble
 $\frac{35\frac{7}{8}}{62\frac{1}{8}}$ *Dictyopyxis cruciata*
 $\frac{35\frac{1}{4}}{62\frac{1}{4}}$ *Coscinodiscus perforatus* Ehr. S. E. of last
 $\frac{50}{23\frac{1}{2}}$ *Denticella tridentata*, young
 $\frac{48\frac{1}{2}}{23\frac{1}{2}}$ " " " end view
 $\frac{47}{73}$ *Rhaphoneus amphicerus* Ehr.
 $\frac{45\frac{1}{2}}{66\frac{1}{2}}$ *Actiniscus Sirius* - touching a bit of *Coscinodiscus*
 $\frac{43\frac{1}{2}}{71}$ *Tragillaria levis* Ehr.
 $\frac{41}{71}$ *Goniothecium odantella* end view
 $\frac{38\frac{3}{4}}{28\frac{1}{2}}$ *Coscinodiscus oculus-iridis*.
" *Actinopterychus octotenarius* - touching last.
 $\frac{36\frac{7}{8}}{65\frac{1}{4}}$ Fragment of ? with festoons
" *Systephania*? touching last
" *Coscinodiscus lineatus* just above

No. 1141 1 in Richmond Va.

- 69 ¹/₄ *Coscinodiscus lineatus* Ehr.
70 ¹/₈
66 ³/₄ *Actinopterychus sedenarius*
73
66 *Mesocapsa minima* (very small, near lower
edge of a broken *Coscinodiscus*)
67 ¹/₈ "*Mesocena diodon* N.W. of last
55 ¹/₈ *Chaetoceros* - - ? fragment with one horn,
69 ¹/₈ touching a long vertical filament -
64 ¹/₂ *Actinopterychus vicenarius*
67
63 ²/₃ *Ditylum*? Small, in the space between
3 *Coscinodisci*, and just above a horn of *Dyococcus*
62 ¹/₈ *Coscinodiscus gigas* - fine one.
77 ¹/₄ "*oculus-iridis* - E. of last
" "*lineatus* - between the two last.
60 ³/₄ *Actinocyclus pyxidicula* - touching the next.
61 ¹/₈ "*Actinocyclus penarius* touching last.
" *Coscinodiscus lineatus*, N.E. of last two
60 ³/₄ "
60 ¹/₈ "*Biddulphia*? *peruviana* B. N.N.E. of last
like Monterey form -
59 ¹/₈ *Coscinodiscus gigas* - Small one
74 ³/₄
59 ¹/₈ *Mesocena circulus*
7 ¹/₂
" *Mesocena diodon* N.E. of last
" *Navicula sigma* S.W. of last two -
57 ¹/₄ *Synedra* long curved one (nov. sp.)
60 ³/₄ "*Halicalyptus depressa*, just above cavity
of last }
55 ¹/₄ *Coscinodiscus oculus-iridis*
61 ¹/₄ "*Actinocyclus* 14 rays, just below last.
55 *Denticella tridentata* Ehr.
60 ³/₄
54 ³/₄ *Coscinodiscus punctatus* elliptical
70 ¹/₈ "*Biddulphia*? N.W. of last.
54 ¹/₈ *Mesocena diodon* deformed
23 ¹/₈ *Chaetoceros*, newly E. of last, - N.W. of a broken
" *Coscinodiscus lineatus*

12. (Continued)

- $\frac{54\frac{3}{4}}{60}$ Dictyocha crux - near an empty ring
 " Ditylum: Virginicum B. frag! S. E. of last.
 $\frac{54\frac{3}{4}}{80\frac{1}{3}}$ Chaetoceros microrum B. N. E. of 2 Coscinodiscs.
 $\frac{53\frac{1}{4}}{71\frac{1}{2}}$ Gracilodiscus physidicula Ehr.
 $\frac{52\frac{3}{4}}{60\frac{1}{4}}$ Dieladia Capreolus Ehr. N. E. of a large broken
 " Ditylum good one Cosc. cc. iridis }
 $\frac{53\frac{1}{4}}{68\frac{3}{4}}$ Dieladia new last
 $\frac{51\frac{1}{4}}{74\frac{3}{4}}$ Mesocena circularis
 " Gomothecium odontella? top view, lacking last.
 $\frac{51\frac{1}{2}}{64\frac{3}{4}}$ Chaetoceros microrum E. of a broken Cosc. ^(calyx) Ehr.
 $\frac{51}{63\frac{3}{4}}$ Gomothecium: barbatum Ehr. near a rectangular br.
 $\frac{50\frac{1}{8}}{63\frac{1}{8}}$ Dictyocha crux
 " fragment of a spinose body Zygocecos? W. of last
 " " " " N. E. of D. crux -
 $\frac{49\frac{1}{3}}{75\frac{3}{4}}$ Navicula sigma
 $\frac{50}{73}$ Ditylum: Virginicum B. broken
 $\frac{48\frac{1}{2}}{72\frac{3}{4}}$ Actinocyclus - blue disc all alone, 14 rays.
 $\frac{47}{77\frac{1}{8}}$ Navicula sigma
 $\frac{44\frac{1}{2}}{65\frac{1}{2}}$ Chaetoceros microrum B.
 $\frac{41\frac{1}{8}}{64}$ Navicula sigma - 2 whole ones, & a fragment of
 " " " " (a larger one)
 $\frac{38\frac{1}{8}}{67\frac{3}{4}}$ Coscinodiscus gigas - small one
 $\frac{43\frac{1}{8}}{67\frac{1}{4}}$ Zygocecos: fragment with spine

No. 1142 Slide 2 a Piscataway, Md.
treated with No. light portions

$61\frac{3}{4}$ Chaetoceros bacillaria Ehr. fine one

$82\frac{1}{8}$

$34\frac{1}{8}$ Triceratium amblyoceros Ehr.

$72\frac{1}{8}$

No. 1143 2 b. Piscataway, Md.
with No. heavy part

$55\frac{1}{4}$ Denticella trid... Ehr. with spines (view side)

90

$47\frac{1}{4}$ Rhaphoneis rhombus?

22

No. 1144 2^c Piscataway, Md.
 $\frac{53\frac{1}{8}}{69}$ Asterolampyx Marylandica Centre broken
 $\frac{59\frac{1}{2}}{81}$ Asterolampyx Marylandica Eln. good inc-

No. 1145 2 d. Piscataway Md.
 $\frac{45\frac{1}{2} +}{38\frac{3}{4}}$ Asterolampyx Marylandica Eln.
 $\frac{43\frac{1}{2}}{35\frac{1}{3}}$ " " "
 $\frac{48\frac{1}{2}}{28\frac{1}{2}}$ " " "

No. 1146 2, 2 Piscataway, Md.

47 1/8 Asterolampas Marylandica (Stage)

46 3/4 Coscinodiscus oculus-iridis

70 7/8

64

63 3/4

63 1/8

64 7/8

Asterolampas

62 3/4

70 1/2

62

63 1/2

60 1/4

62 3/4

" large, but broken

" " good

" "

"

Actinopterychus

Cosmo. oculus-iridis

Asterolampas, with portion of ring }
N.E. of last }

58 1/4

63 3/4

57 1/2

62 1/2

58 1/4

70 1/4

54 1/4

67 3/4

Triceratium amblyceros

Rhizosolenia

Asterolampas portion of a large one
N. of a lot of Cos. oc. irid.

Asterolampas

" S.W. of last

Rhizosolenia S.E. of last

47 1/2

63 1/2

39 1/2

48 1/2

62 3/4

65

Asterolampas with portion of cule

Asterolampas, + many of her Asterolampas
not recorded

Triceratium

63 3/4

63 1/2

62 1/2

62 1/2

61 3/4

64

60 1/4

63 1/8

60 1/2

58 3/4

23 1/2

58 1/4

64 1/4

57 1/4

67 1/4

57 1/2

25 3/4

56 3/4

25 3/4

53 3/4

71

54 1/4

68

52 1/8

23 1/2

49 1/4

28 3/4

"

"

"

No. 1147 2 f. Piscataway, Md.

$\frac{55\frac{1}{2}}{81\frac{1}{2}}$	Asterolampyx Marylandica ?? double disc: m.w. sp?	
$\frac{55\frac{1}{2}}{63\frac{1}{4}}$	Asterolampyx Marylandica !	
$\frac{62\frac{1}{4}}{72\frac{1}{3}}$	Denticella tridentata Es.	62 $72\frac{1}{2}$
$\frac{61\frac{1}{8}}{79}$	Mastogonia	60 $\frac{3}{4}$ 79 $\frac{1}{4}$
$\frac{60\frac{1}{8}}{80\frac{3}{4}}$	Denticella tridentata	60 $\frac{1}{8}$ 80 $\frac{3}{4}$
$\frac{58\frac{1}{2}}{75\frac{1}{4}}$	Mastogonia, with spines at center } just above a brown mass }	58 $\frac{3}{4}$ 76 $\frac{1}{4}$
$\frac{57}{84\frac{1}{2}}$	Rhaphoneis rhombus	57 84 $\frac{1}{2}$
$\frac{57}{85}$	Amphalopelta areolata	57 85
$\frac{57\frac{3}{4}}{87\frac{3}{4}}$	Denticella tridentata Ehr.	57 $\frac{3}{4}$ 87 $\frac{3}{4}$
$\frac{53\frac{1}{4}}{88\frac{1}{2}}$	Asterolampyx Marylandica	53 $\frac{1}{2}$ 88 $\frac{1}{2}$
$\frac{53\frac{3}{4}}{87}$	Coscinodiscus oculus-iridis	53 $\frac{1}{2}$ 87 $\frac{1}{8}$
$\frac{49\frac{3}{4}}{83\frac{1}{8}}$	Dielladia ?	49 $\frac{1}{2}$ 83
	Asterolampyx Marylandica Small, faint between & yellow spots in margin of field	46 $\frac{1}{4}$ 73
$\frac{44\frac{3}{4}}{82\frac{1}{8}}$	Asterolampyx Marylandica	44 $\frac{1}{2}$ 82
$\frac{42\frac{3}{4}}{80}$	Eupodiscus 3 feet	42 $\frac{3}{4}$ 80
	Denticella tridentata good one	41 $\frac{1}{2}$ 78 $\frac{1}{8}$
	Eupodiscus 3 feet good	40 86
	Rhaphoneis	39 $\frac{3}{4}$ 67 $\frac{1}{4}$
	Eupodiscus 4 feet good	37 $\frac{3}{4}$ 70 $\frac{1}{2}$
	Coscinodiscus perforatus	35 $\frac{1}{4}$ 74

No. 1148 2 g. Piscataway, N.J.
 $\frac{63\frac{1}{4}}{36+}$ Asterolampas Marylandica - just S. of a
 $\frac{52\frac{1}{8}}{70}$ " " Ely. long filament
 good one

No. 1149 2 L. Piscataway, N.J.
 $\frac{52\frac{3}{4}}{74\frac{3}{4}}$ Asterolampas
 $\frac{59\frac{3}{4}}{79\frac{3}{4}}$ " (record to be continued)
 a few Barbadoes Polycistinis introduced
 by some accident

No. 1150 2 i Piscataway N.J.

$63\frac{3}{4}$	Asterolampra Marylandica	8 rays	
$60\frac{1}{8}$			
$58\frac{1}{4}$	"		
$26\frac{3}{4}$			
"	another fragment	to E. of last	
$57\frac{1}{4}$	Asterolampra Marylandica,	good one with	part of outline }
$3\frac{1}{2}$			
$53\frac{1}{2}$	Mesocena	with 2 spines	
$25\frac{1}{8}$			
$33\frac{1}{2}$	Asterolampra		
$68\frac{1}{2}$			
$60\frac{3}{4}$	large Asterolampra Marylandica	with part of	outline }
60			
$51\frac{1}{4}$	large "	"	$51\frac{1}{4}$ by Indicate
$26\frac{3}{4}$			$27\frac{1}{4}$ "
$42\frac{1}{2}$	large Cosmodiscus oculus-iris?		$42\frac{3}{4}$ "
27			$28\frac{1}{4}$ "
$41\frac{1}{4}$	Chaetoceros	partly obscured	$41\frac{1}{4}$
$71\frac{3}{4}$			$72\frac{1}{4}$
$61\frac{3}{4}$	Asterolampra Marylandica		
$28\frac{3}{4}$			
41	"	2 valves lacking	
$72\frac{3}{4}$			

(a few Barbadae Polycistina introduced
by some accident.

No. 1151 2 j. Piscataway N.J.
light portions

No. 1152 2 k. Piscataway N.J.
Asterolampra Marylandica

No. 1153 3 a. Calvert Co. Md.

$46\frac{1}{2}$	<i>Stalioomma</i> ?	4 specimens
$27\frac{2}{8}$		
$45\frac{1}{4}$	"	3 specimens
$26\frac{1}{2}$		
$44\frac{3}{4}$	"	1 with long spine
$25\frac{1}{2}$		
$40\frac{1}{2}$?	new genus	
$25\frac{1}{3}$		
49	"	2 specimens
$35\frac{3}{4}$		

No. 1154 3 b. Calvert Co. Md.

Polychaetaria with a new *Tellina*

No. 1155 4 a. Richmond Va.

$\frac{50}{77} \frac{1}{8}$ Chaetoceros, with very long arms, one broken
between an empty ring, and a bit of *Coc. lineo-* ^(trans.)

$\frac{48}{88}$ Cyclotella? with dots near margin

$\frac{64}{72} \frac{1}{8}$ Piddulphia See Paper on Bermuda forms -
Pl. fig 24 a

$\frac{52}{72} \frac{1}{8}$ Stephanogonia nov. sp.?

$\frac{54}{74} \frac{1}{4}$ Triceratium obtusum? Ehr. N. W. of Dietyocha
fibula-

$\frac{52}{82} \frac{3}{4}$ Mesocena areolaris? S. E. of empty ring.

No. 1156 4 b. Richmond Va.

No. 1157 5a. Rappahannock, Va.
 Dr. Chilton

57 Actinocyclus large one
 $\frac{81}{81\frac{1}{2}}$

61 Graspodiscus
 $\frac{85}{85\frac{1}{2}}$

42 $\frac{1}{2}$ Actinocyclus, large one, partly obscured
 $\frac{73}{73\frac{1}{3}}$

56 $\frac{3}{4}$ Graspodiscus
 $\frac{76}{76\frac{1}{4}}$

43 $\frac{1}{4}$ Triceratium
 $\frac{84}{84}$

58 $\frac{1}{8}$ Graspodiscus
 $\frac{81}{81}$

43 Triceratium
 $\frac{85}{85\frac{2}{3}}$

No. 1158 5b. Rappahannock Cliff Va.
 boiled in water

$\frac{65}{65\frac{3}{4}}$ Graspodiscus
 $\frac{72}{72\frac{3}{4}}$

No. 1159 6a Petersburg, Va.

No. 1160 7a Hollis Cliffs, Va.

$\frac{51}{81}$ *Coscinodiscus marginatus*? Ehr.

$\frac{59}{69}$ *Triceratium amblyoceros* Ehr. fine one

$4\frac{3}{2}$ *Actinopterychus* (many rays)

$\frac{59\frac{3}{4}}{7\frac{1}{2}}$ *Coscinodiscus oculus. iridis* (ophthalmus?)

No. 1161 J. b. Hollis Cliffs Pa.
Hyalodiscus laevis Ehr.

No. 1162 J. c. Same as above

No. 1163 J. d. Same as above

No. 1164 8a		Bermuda	Stages right line
Plain indicated			
48 1/2	Heliofella		48 1/2
65			65
44	Triceratium undulatum		44
66 1/4			66 1/2
	Triceratium		49 3/4
			70 1/3
	Coscinodiscus omphalanthus?		54
			27
	Omphalopelta ureolata		60
			67
	Chaetoceros good		61
			27 1/4
	Goniothecium		59 1/2
			77 1/4
	Coscinodiscus heteroporus		54 1/2
			63 1/2
	" perforatus		54 1/4
			63 1/2
	Coscinodiscus		57 3/4
			67 1/4
	Omphalopelta ureolata		57
			71 1/4
	Amphitetras Small etc to margin of group, S. of Gallionella sulcataria		56 3/4
			60 1/8
	Coscinodiscus marginatus?		52 1/4
			60 1/2
	Periphera, by a yellow spot S.W. of a Heliofella		52 1/4
			68 1/4
	Heliofella 3 rays		52 1/2
			68 1/2
	Heliofella 4 "		48 1/2
			64
	Ceratopyxis?		48 1/4
			77 1/8
	Eupodiscus 4 rays		47 1/2
			76 3/4
	Triceratium undulatum?		46 3/4
			26 3/4
	Zygoceros? S.E. of a black spot		44 1/2
			70 1/4
	Heliofella 4 rays		44 1/2
			72 1/8
	" obscured		43 3/4
			26
	Triceratium Solemicos in the crowd		49 3/4
			60
	Eupodiscus 4 feet		39 1/4
			68 1/2
	Heliofella 4 rays		36
			69 1/4
	Omphalopelta 3 rays		11

No. 1165 8 b. Bermuda

45 $\frac{1}{4}$	<i>Steliopelta</i> Euleri Ehr.	large one good	5
69+			
44	<i>Steliopelta</i> Leenwenhoekii	large one	4
73 $\frac{1}{3}$			
48 $\frac{1}{2}$	<i>Coscinodiscus</i>	large one with rose centre	
71			

No. 1166 8 c. Bermuda

45	<i>Craspedodiscus elegans</i> Ehr.	broken	
66 $\frac{3}{4}$			
61 $\frac{1}{2}$	<i>Steliopelta</i> (Leenwenhoekii)		
73 $\frac{1}{2}$	4		
52	"		
27 $\frac{1}{8}$	5		
56	"	4	C.S.
64			
45 $\frac{1}{4}$	<i>Coscinodiscus</i> ,	large one with central cells	
30			

No. 1164 x d. *Reemda*

Claims Ind.:

$\frac{57\frac{1}{2}}{25}$

Stage
by left line
 $\frac{57\frac{1}{2}}{25}$

Loxemodiscus marginatus

Chaetoceros diploneis top view

Small ellipsoid with rays - S.W. of a *Zygoceros biporus*

Triceratium undulatum:

Chaetoceros. horn of. S.E. of last

Heterolampra 6 rays good

Nalanthrum tubulis B.

Chaetoceros, horn of

Zygoceros biporus

Heliofelta 4 rays

" "

Eupodiscus 3 feet

Eupodiscus 4 "

Gomothecium

Triceratium edge view

Elliptical disc with knot.

Triceratium crenatum B. new

Triceratium solenoceros Ehr. good

Loxemodiscus crenatus B. new

Loxemodiscus onphalanthus?

Heliofelta 5 rays

Eupodiscus? *Zygoceros*? round with 2 feet

$\frac{57}{67}$ *Triceratium*
c.s.

60
61
 $63\frac{3}{4}$
 $61\frac{1}{4}$
63
 $61\frac{1}{4}$
60
 $67\frac{3}{4}$
 $60\frac{1}{8}$
 $27\frac{3}{4}$
 $59\frac{3}{4}$
 25
 $59\frac{3}{4}$
 26
 58
 $27\frac{3}{4}$
 58
 $25\frac{1}{2}$
 $56\frac{3}{4}$
60
57
69
 $57\frac{1}{2}$
 $74\frac{1}{2}$
 50
 $22\frac{1}{2}$
 $48\frac{3}{4}$
65
44
63
 $43\frac{3}{4}$
 $26\frac{1}{2}$
 $43\frac{3}{4}$
 $66\frac{1}{4}$
 $41\frac{1}{2}$
 $61\frac{1}{4}$
 38
 26
 $60\frac{1}{2}$
 $67\frac{1}{2}$

No. 1168 8e Bermuda
52 1/4 Piddulphia polymera Ehr.
84 1/8 original specimen

No. 1169 8f Bermuda
64 1/8 Mastogonia crux Ehr. (5 rayed variety)
63 1/8 " conical body with rays and fructules
72 1/4 surface
59 Encyrtidism?
71 1/4
54 3/4 Chaetoceros, like Brightwell's fig 1?
71 1/3 Mich. Journ. Vol. 18, pl. VII.

No. 1170 8 g. Bermuda
4 3/8 Anlacodiscus Cruz Ebu.
7 7/2
4 7/8
8 11
Loscimodiscus Lange one

No. 1171 8 h. Bermuda

No. 1172 8 i

Peruviana
recd from A. S. Johnson
Apr 22. 1856

$33\frac{1}{3}$
 $82\frac{1}{4}$

Stalacodiscus crux

$64+$
 $8''$

Stalac frag. 2 feet !!

$57\frac{1}{3}$
 $71\frac{1}{3}$

Cosmodiscus cephalanthus?

$44\frac{1}{2}+$
 72

Foot of *Stalac. crux.*

44
 $67+$

Meliopelta sellegnerii

13
 63

Emp. quat.

$36\frac{1}{2}$
 28

Xanthoxyxis oblonga

49
 $25\frac{3}{4}$

Empodiscus yimarius

826

No. 1173 8j Bermuda
Coscinodiscus omphalanthus

		Stages
		46 1/2
		74 1/2
58 3/4	<i>Eupodiscus</i>	58 1/2
76 1/2 +		76 1/2 +
55 7/8	<i>Heliofella</i>	55 7/8
76 1/2		76 1/2
57	<i>Heliofella</i>	57
66		66
57 3/4	<i>Amphitetras</i> Small	57 3/4
		66
	<i>Omphalofella</i> 2 specimens	63 3/4
		78 3/4
	<i>Heliofella</i> 5 rays	61 3/4
		77 1/2
55 1/8	<i>Coscinodiscus gemmifer?</i>	55 3/4
68 1/2		68 1/2
"	<i>Asterocolumpra?</i> touching last on S.E.	"
	<i>Triceratium crenatum</i> P. Jantzi	57
		63 3/4
	<i>Zygoceros biporus</i> Ehr.	54 1/2
		74 3/4
51 1/4	<i>Heliofella</i> 4 rays	51 1/4
88 1/2		88 1/2
51 1/4	<i>Triceratium solenoceros</i>	51 1/4
69 1/2		69 1/2
48 7/8	<i>Gomothecium</i>	48 3/4
69		69
	<i>Sceptroneis caducens</i> 3 spec ^{ns}	47 1/2
		87
	<i>Triceratium undulatum</i> Ehr.	46 1/4
		70 1/2
	<i>Triceratium undulatum</i>	48
		79
	<i>Peristephania</i>	46 3/4
		78 3/4

No. 1174 S. H. Bermuda

47 1/8 Heterolampra Marylandica? fine
84 2 valves unimposed

14 3/4 ? W. of a Dictyocha E. of a →

27 3/4 Craspedodiscus elegans

53 3/4 Rhizosolenia punctata

78 1/4 Eupodiscus 4 feet

36 Craspedodiscus elegans Ehr.

79 2/3 Nelmoflyctus yellow

33 3/4 ? cones with lines

45 1/2 ?
17 1/8 Encyrtidium?
44
83 3/4

No. 1175 8 p. Bermuda
 $\frac{41}{2}$ Heteropterychus with "watered" surface
 $\frac{90}{52\frac{1}{4}}$ Mastogonia Crust? 7 rays
 $\frac{24}{78}$

No 1176 8 m. Bermuda
 $\frac{43}{62\frac{1}{3}}$ Heliofella Eleri Ehr.
 $\frac{43\frac{1}{2}}{81\frac{1}{8}}$ Heliofella Eleri Ehr.

No. 1174 8 m. Bermuda

- $\frac{45}{64 \frac{2}{3}}$ *Denticella polymera* Ehr. top view
 $\frac{69}{67 \frac{1}{4}}$ *Coscinodiscus omphalanthus*?
 $\frac{64 \frac{1}{8}}{72 \frac{1}{8}}$ *Triceratium undulatum*?
 $\frac{64 \frac{1}{2}}{63}$ *Coscinodiscus omphalanthus*?
between 2 *Coscinodisci*
 $\frac{64 \frac{1}{3}}{61 \frac{1}{4}}$
 $\frac{63 \frac{1}{2}}{80 \frac{1}{3}}$
 $\frac{61 \frac{1}{4}}{78 \frac{1}{2}}$ *Heliofella* small
 $\frac{58 \frac{1}{2}}{71 \frac{1}{4}}$ *Triceratium*
 $\frac{55}{24 \frac{1}{2}}$
 $\frac{54 \frac{1}{4}}{67 \frac{3}{4}}$ *Gomothecium* side view
 $\frac{54 \frac{1}{3}}{61}$ D
 $\frac{54}{26 \frac{3}{4}}$ "
 $\frac{53 \frac{3}{4}}{76}$ *Triceratium solenoceros*
 $\frac{53 \frac{1}{3}}{82 \frac{1}{4}}$ *Gomothecium* top view
 $\frac{51 \frac{1}{4}}{82}$ *Craspedodiscus elegans*
 $\frac{49 \frac{1}{2}}{85 \frac{3}{4}}$ *Mesocena triangularis* B.
 $\frac{49 \frac{1}{2}}{26 \frac{1}{4}}$ *Heliofella* 4 rays good
 $\frac{49 \frac{1}{4}}{84 \frac{1}{3}}$ *Chaetoceros duplonis*
148 *Gomothecium* E. of *Coscinodiscus*
28
 $\frac{45 \frac{1}{2}}{84}$ *Heliofella* 4 rays good
 $\frac{43 \frac{3}{4}}{62 \frac{1}{3}}$ *Gomothecium*
 $\frac{43 \frac{3}{4}}{70 \frac{3}{4}}$ *Triceratium undulatum*
" D S of last
 $\frac{42 \frac{1}{4}}{65 \frac{1}{4}}$ *Triceratium*
 $\frac{32 \frac{3}{4}}{73 \frac{1}{2}}$ *Eupodiscus* 3 feet
Triceratium solenoceros.

No. 1178 ♂

Bermuda

Heliofetta Sellignerii

No. 1179 ♂

Bermuda & Sanardale

Heliofetta Sellignerii

Stilacodiscus crux

Craspedodiscus elegans

Fossil Polycistons & Diatoms.
 No. 1180 Slide St. Barbados

No. 1181 P. Barbados
 By figure No. 1 near ...
 $4\frac{3}{4}$ *Coscinodiscus nobilis*, showing spines well $4\frac{3}{4}$
 $7\frac{1}{2}$ S.W. of large *Halimomma* fragment, $7\frac{1}{2}$
 N. of reticulated ovoid

- $\frac{57}{76\frac{1}{4}}$ (1) 8 div. 5 mar. prolongations
 centre perfect margin broken $56\frac{3}{4}$
 $76\frac{1}{4}$ $76\frac{1}{3}$
- $\frac{56\frac{1}{4}}{73\frac{1}{4}}$ (2) *Cosc. nobilis*, showing spines $56\frac{1}{4}$
 $73\frac{1}{4}$ $78\frac{1}{4}$
- $\frac{54\frac{1}{2}}{21\frac{3}{4}}$ (3) $55\frac{5}{8}$ $22\frac{1}{4}$ *Cosc. nob.* under side?
 fragment with *Biddulphia* in contact 55
 $22\frac{7}{8}$
- $\frac{53\frac{1}{2}}{40}$ (4) 12 div. nucleated longanus fragt. $53\frac{1}{2}$
 40 $40\frac{2}{3}$
- 222 $\frac{50\frac{1}{8}}{24\frac{1}{8}}$ (5) $\frac{51\frac{1}{4}}{25\frac{1}{2}}$ *Cosc. nob.* nearly perfect $51\frac{1}{2}$
 $24\frac{1}{8}$ $26\frac{1}{2}$
- $\frac{45\frac{3}{4}}{28\frac{1}{4}}$ (6) $\frac{46}{28\frac{1}{4}}$ 9 div. 1 unc. 5 mar. prolongations 46
 $28\frac{1}{4}$ 29 below centre a good deal crowded, but perfect
 S. of *Cyrtosphyrellis* and just below a spine
- $\frac{37\frac{3}{4}}{32\frac{7}{8}}$ (7) $\frac{38}{32\frac{3}{4}}$ 10 div. 3 nuclei 5 mar. 38
 $32\frac{3}{4}$ $33\frac{1}{8}$ below centre almost in contact with a
 broken *Halimomma*
- $\frac{45}{73\frac{1}{2}}$ quite minute, a little below centre $44\frac{7}{8}$
 $73\frac{1}{2}$ $73\frac{1}{8}$
- $\frac{45}{39}$ very thin 45
 39 39
- $\frac{41}{34\frac{1}{4}}$ Centre piece: of *Coscinodiscus nobilis*? 41
 $34\frac{1}{4}$ partly covered $34\frac{3}{4}$

No. 1182 C. Barbados, Springfield by new card ^B

By No. 7 and 2 glasses of Cheshire high power

$\frac{63\frac{1}{4}}{33\frac{1}{2}}$ ^{$\frac{64^+}{34^+}$} (1) 7 divisions, centre not iridescenced, eleven marginal prolongations between umbilicus & dotted margin - fragment - ^{26.E. of - $\frac{63.3}{34\frac{1}{2}}$}

$\frac{58\frac{1}{2}}{34\frac{1}{4}}$ (2) fragment of shell of which you have photographs 20 divisions, centre very large - dotted margin almost obsolete. only 3 divisions in fragment. ^{58.4} W. of net N. of 2 crossed X spicules ₃₅₊

$\frac{58}{35}$ (3) ^{$\frac{58\frac{1}{2}}$} fragment 10 div. 5 marg. prolong. ^{W. of fragment of net} surface ^{58.4} _{35.1/4} ^{35.3/4} _{35.1/4} ^{35.3/4}

$\frac{55}{33\frac{3}{4}}$ (4) Same as (3) except one 0 in centre ^{N.W. of Stultella}

$\frac{54\frac{1}{2}}{36}$ (5) ^{$\frac{55\frac{3}{4}^+}{34}$} *Leostephania*, (partly covered up in a crowd and N.W. of a small *Tricrinitum*, and ^{54.3/4} ₃₆ ^{55.1/4} _{34.2/3} ^{56.1/8} ₃₆ ^{54.1/2} ₇₉

$\frac{54\frac{1}{2}}{79\frac{1}{4}}$ (6) ^{$\frac{55}{79\frac{3}{4}}$} do E. of a brown spot ^{54.1/2} ₇₉

$\frac{49\frac{3}{4}}{34\frac{1}{4}}$ (7) ^{$\frac{50^+}{34\frac{1}{2}}$} 8 div. plain centre 5 marg. prolong. fragment 5.E. of 2 frags. of *Stalioomma*

$\frac{42}{70}$ (8) ^{$\frac{42\frac{1}{4}}{70\frac{1}{2}}$} *Coccomodiscus mobilis*, showing the spines on the shell, originating just outside the large dots, one sticks out beyond the shell.

$\frac{37\frac{1}{4}}{32}$ (9) ^{$\frac{38\frac{1}{4}}{31\frac{1}{2}}$} *Leostephania* ^{$\frac{38}{31\frac{3}{4}}$} S.E. of *Stalioomma* ^{42.1/4} ₇₀ N.W. of centre of No. 7 _{31.1/2} by $\frac{37\frac{3}{4}}{31\frac{1}{2}}$ by $\frac{37\frac{3}{4}}{31\frac{1}{2}}$ by $\frac{37\frac{3}{4}}{31\frac{1}{2}}$ by $\frac{37\frac{3}{4}}{31\frac{1}{2}}$ by $\frac{37\frac{3}{4}}{31\frac{1}{2}}$ and grid rule

No. 1183 Slide D. Barbadoes Cud B.

by 1/2 on No. 7
 $\frac{54}{39\frac{1}{4}}$ (1) $\frac{54\frac{3}{4}}{39}$ 9 div. 5 max. prol.^s no nuclei $\frac{54\frac{1}{4}}{39\frac{3}{4}}$
 s. w. of large bit of *Halimma*

$\frac{44\frac{1}{4}}{72}$ (2) $\frac{44\frac{1}{2}}{72\frac{1}{4}}$ 7 div. 5 max. prol.^s $\frac{44\frac{1}{2}}{72\frac{1}{4}}$ "
 a mic film fragt. of central portion
 of large fragt. of *Halimma* and in a group with

$\frac{44\frac{1}{4}}{77}$ (3) $\frac{45}{77\frac{3}{4}}$ *Coscinod^s nobilis* $\frac{44\frac{1}{8}}{77\frac{1}{4}}$

$\frac{43\frac{3}{4}}{74\frac{1}{4}}$ (4) $\frac{44\frac{1}{4}}{75}$ 16 div. long arms wide dotted margin !!
 50 odd nuclei - centre perfect
 with portion of margin

$\frac{40\frac{1}{2}}{74\frac{3}{4}}$ (5) $\frac{41\frac{1}{2}}{75}$ 6 div. large marginals prol.^s
 probably the large irregular fragt.
 a mere film

No. 1184 Slide E. Springfield Barbadoes.
 Specimens $\frac{1}{16}$ in field at N.E. margin by this reef

$\frac{61\frac{3}{4}}{73\frac{3}{4}}$ $\frac{61}{73}$ (1) $\frac{61\frac{1}{8}}{73\frac{1}{4}}$
 by $\frac{1}{16}$ $\frac{60\frac{3}{4}}{40\frac{1}{2}}$ (2) $\frac{60\frac{1}{4}}{40\frac{3}{4}}$ 12 divisions, no nuclei, 5 marginal pro-
 longations between two arms - good specimen.

by $\frac{1}{16}$ $\frac{50\frac{3}{4}}{70+}$ $\frac{50\frac{1}{2}}{70}$ (3) $\frac{50\frac{3}{4}}{70+}$ 8 divisions - no nuclei, 5 mar. $\frac{50\frac{3}{4}}{69\frac{3}{4}}$ better
 found at first trial -

Registered with a $\frac{1}{4}$ " Spencer, on
 movable stage - enamelled card graduation
 each shell well centered

No. 1185 F. Barbadoes - near Card. 13.

$\frac{57\frac{1}{2}}{48\frac{1}{2}}$ Cellular tissue with large spines $\frac{57\frac{1}{8}}{49\frac{1}{8}}$

$\frac{52\frac{1}{4}}{81\frac{1}{2}}$ Astromma? with cellular tissue $\frac{52+}{80\frac{3}{4}}$

$\frac{57\frac{1}{8}}{74}$ 58 " tissue broken away $\frac{57\frac{3}{4}}{73\frac{1}{2}}$

$\frac{51\frac{1}{2}}{71+}$ Diaboliscus with three horns unbroken $\frac{50\frac{1}{2}}{71}$

$\frac{46}{41\frac{1}{2}(78)}$ $\frac{45\frac{1}{2}}{42}$ Coscinod. mobilis - $\frac{45\frac{1}{2}}{42}$ ghost thereof

$\frac{42}{41\frac{1}{8}}$ partly covered on the long leg
 above a *Flustrella* and
 a long spiculum in the same field, points
 to it.

$\frac{43\frac{1}{2}}{39-}$ fragments of polycistina with strangely
 branched spines $\frac{43\frac{1}{4}}{39\frac{1}{2}}$

$\frac{48}{29\frac{1}{2}(2)}$ *Cornutella* $\frac{48}{29\frac{3}{4}}$

$\frac{43\frac{1}{2}}{41\frac{1}{2}}$ Small shell with 8 rays ($\frac{43}{41\frac{3}{4}}$ in right
 margin of *Cornutella* and ed. of a
 line joining 2 bits of *Flustrella* -

No. 1186 G Barbadoes Springfield
light portions

58 Triceratium

64 1/4

" *Loxostomodiscus nobilis*, Johnson
E. of above small one.

57 1/2

73 1/8

49 1/2

71 1/4

49 1/4

69 1/8

48

67

59

70 1/8

53 3/4

17

40 1/2

25 1/2

45

61 1/8

41 1/2

29 1/8

fragment of disc - with rays.

Disc with rays - 2 valves, touching a \odot

Disc with rays - Small S.W. of a brown spot

Loxostomodiscus nobilis Johnson good one

Hemianthus? *caudatus*, long central tail }
E. of bubble }

Disc rays small

" N. of a no-descript horn: good one

Disc S.W. of N.W. of *Dictyopyxis*

Lioslephania? new disc

W. of \rightarrow
N.W. of \odot

No. 1187. *H.* Barbadoes (Springfield)
 light. punctate spots.
 Disc 12 rays, and a rosette near a bit of
 coarse network.
 $148\frac{1}{2}$ fragment of large disc with rays
 80
 $52\frac{1}{8}$ " " small " N.E. of a yellow spot.
 66
 $50\frac{1}{8}$ Disc 11 rays & rosette N.W. of "
 $80\frac{3}{4}$
 57 Fragment of disc with 2 battle doors
 $74\frac{1}{4}$
 $49\frac{1}{4}$? *Coscinodiscus punctatus*? elliptical
 $71\frac{3}{4}$
 $44\frac{1}{8}$
 $75\frac{3}{4}$

No. 1188 *I.* Barbadoes (Scotland)
 $51\frac{1}{2}$ *Stromma*
 $62\frac{1}{3}$
 $42\frac{3}{4}$ " oblique
 $30\frac{1}{4}$
 $53\frac{1}{2}$ "
 $21\frac{1}{8}$

No. 1189 J. Barbadoes, Springfield

42 1/3

23 7/8

39 1/4

40 1/8

36 1/4

67 1/2

45 7/8

20 1/4

Stylodicta

with large spines

Disc with rays. Small. E. of a *Coenocytella*

Coscinodiscus nobilis Johnson

Seen obliquely S. of a filament

No. 1190 K. Barbadoes (Springfield)

Light portions - boiled in Ag - then chlorated

66 1/2

72 1/4

Disc, 8 rays small

47 1/4

63 2/3

Disc 7 rays - no nucleus - S. E. of E

65 7/8

69 3/4

Disc 8 rays - Small

52 1/3

73 1/4

Disc Seen obliquely, N. W. of a small *Encyrtid* imm.

No. 1191 L.

Barbadoes.

- 51 7/8 Philomma like Halomma with entire margin
- 68 7/8
- 66 1/4 Petalospyrus
- 25 7/8
- 4.0 Anchoyctis! Mespilus?
- 7 1/2
- 48 7/8 Halomma with numerous flat rays.
- 24 1/3

No. 1192 M. Barbadoes, Scotland District
with acids & Soda

- 59 Rhabdolithis Pipa? Mib. 7. 36 fig 59 B.
- 80
- 65 1/2 Ceratospyrus with many long horns
- 85 3/4
- 58 Podocystis Schomburgkii?
- 77 3/4
- 51 1/8 Ceratospyrus with long horns
- 13 1/4
- 46 1/3 Podocystis 3 very long feet - 2 broken
- 75 1/2

No. 1193 N. Barbados. Scotland district
(gas)
Corintella? like C. Fucella
 $\frac{52}{64 \frac{3}{4}}$

No. 1194 O. Barbados. Scotland district
cleaned with Hel. gas.

No. 1195 P. Barbadoes, Scotland district
52 Podocystis allied to P. Schomburgkii good me
69 3/4

No 1196 Q. Barbadoes. Scotland district
(1st results with HCl acid gas)

49 Lioctephania
66 3/4

49 Halocalyptea? large Campanulate form
73

46 Anthocystis fine me
61 1/4

No. 1197 R. Barbadoes, Scotland

- 1 $63\frac{3}{4}$ Podocystis Schomburgkii Ehr.
89
- 2 $63\frac{7}{8}$ Ceratospyrus with 6 horns
6278
- 3 $57\frac{1}{2}$ Eucyrtidium with clavate spine
86 $\frac{1}{2}$
- 4 $52\frac{3}{4}$?
90
- 5 $48\frac{1}{2}$ Podocystis ?? very coarse net, warts and
65 long feet.
- 6 35 Podocystis Schomburgkii
81
- 7 $30\frac{1}{3}$?
73 $\frac{3}{4}$
- 8 $45\frac{7}{4}$ like No 5.
94
 $46\frac{3}{4}$ Triceratium
80 $\frac{1}{4}$
Small Podocystis with long feet
41 $\frac{1}{2}$
29 $\frac{2}{3}$
Podocystis ? horns very long feet
45 $\frac{7}{4}$
65 $\frac{7}{4}$

No. 1198 S. Barbadoes

$\frac{51}{76} \frac{1}{34}$ Rotalia? $\frac{52}{38}$

48
80 Halimma? with numerous marginal rays, broken showing nucleus and internal rays.

48
89 $\frac{3}{4}$ Triceratium Castellum B. { 45
76 $\frac{1}{4}$

45 $\frac{1}{8}$ Coscinodiscus nobilis, Johnson

81 $\frac{1}{2}$
38 +
93 Johnsons form with nucleated centre and perforated margin - In right hand corner of ring, faint and partly obscured by

56 $\frac{1}{4}$
80 new form
by stage indicator

37 $\frac{7}{8}$
82 $\frac{3}{4}$ Halimma with coarse net + spines
36 $\frac{3}{4}$ " fine net such of last.
87 $\frac{1}{2}$
"

35 Podocystis somewhat like P. scypha

79 $\frac{1}{2}$ " ? basal view of another species showing small spines.

34 $\frac{3}{4}$ Encyrtidium tubulosum

72 $\frac{1}{3}$ Halimma Humboldtii? marginal rays -

35 $\frac{1}{3}$ " numerous rays -

76 $\frac{1}{2}$ " by 1 inch and stage indicator

31 $\frac{2}{3}$ Lithornithium

81 $\frac{1}{4}$
30
73 $\frac{1}{4}$

No. 1199- I Barbadoes, Springfield
(Leary portions) heated with boiling water then chlorated

48 Tricervalium marginatum Brightwell
87+ Part of Johnson's beautiful one
See Trans. J. Mic. Sc. Vol. 14 pl. 17 fig 13

41 1/4 Disc. Small with rays and nucleus -
79 7/8 SW. of a Stylodictya E. of a curved horn
64 3/4 Lithocyclia

65 1/4 " Podocystis colhurswata, SW. of above just
of the field

54 1/2 Rhabdolithis Pipa Ehr.

67 1/2

57

81 1/4

64 3/4

67

Lithocyclia

52

24 3/4

Halicalypta ?

57

24 1/8

Ceratospyrus ??

51 1/2

68 1/2

No. 1200 W. Barbadoes, Scotland district
(2 legs)

63 $\frac{1}{8}$ Tricervalium venosum Brightwell
78 $\frac{1}{4}$ See Mich. Journ. Vol 4. p XVII - fig. 5

55 $\frac{1}{2}$ Podocystis Schomburgkii? 2 specimens

79 $\frac{3}{4}$ " Nitra Ehu.

50 $\frac{1}{2}$ " papalis? S. W. of last

72 $\frac{1}{4}$ " "

48 " Schomburgkii good one
88 with terminal spine and 3 legs (one leg broken)

40 $\frac{3}{4}$ Rhabdolithis Papa 40 $\frac{3}{4}$
75 $\frac{3}{4}$ 75 $\frac{1}{2}$

No. 1201 N. Barbadoes, Springfield
boiled in No then chlorated (by candle light)

61 Coscinodiscus nobilis Johnson

69 $\frac{1}{8}$ Fragment of net work (Ditycephala?)

60 80 $\frac{3}{4}$

57 $\frac{1}{4}$ Disc with rays - Small S.E. of broken Halimma

69

No. 1202 W. Barbadoes, Scotland district.
Treated with HCl. and then with KO

$\frac{49}{60}$ +
54
82

Podocystis Schomburgkii ? good

No. 1203 Y. Barbadoes, Scotland, dist.
HCl. gas.

No. 1204 F. Barbadoes. Springfield

$\frac{24}{108}$ Curims Polycistri

$\frac{24\frac{1}{2}}{85}$ " " Same species

$\frac{33\frac{3}{4}}{26}$ Lichocyclia

No. 1205 F. Barbadoes

$\frac{68\frac{3}{4}}{95}$ Encyrtidium tubulus? Ehr.

$\frac{69\frac{1}{4}}{90}$ Podocystis papalis Ehr.

$\frac{48\frac{1}{8}}{73\frac{1}{2}}$ " " ? good

$\frac{28}{75\frac{1}{8}}$ Lychno caninum

No. 1206 A' Barbadoes

62 ¹ / ₄	<i>Lychnocanium</i>	2 spec.
72 ⁷ / ₈	<i>Lithonistium</i>	broken
64 ¹ / ₈		
70 ⁷ / ₈		
61 ³ / ₄	"	
42		
59	"	oblique basal view
33 ¹ / ₈		
55 ¹ / ₂	"	good specimen
61 ¹ / ₂		
34 ¹ / ₂	<i>Lychnocanium</i>	
66		
38 ¹ / ₂	?	touching a <i>Lychnocanium</i>
34 ³ / ₄		
48 ³ / ₄	<i>Lithonistium</i>	with long projections
79 ¹ / ₄		
35 ¹ / ₂	<i>Coscinodiscus nobilis</i>	
76 ¹ / ₃		
43		
79 ¹ / ₂	?	spindle shape, allied to <i>Encyrtidium tubaluc</i> Ehr.

No. 1207 D' Barbadoes.

52 ¹ / ₃	<i>Triceratium Castellum</i> D.	nov. sp.
81 ¹ / ₄		

No. 1208 C' Barbados
 $\frac{65}{64}$ *Halimma?* *Saturii*

Ehr.

No. 1209 D' Barbados

$\frac{53}{79 \frac{1}{4}}$	<i>Antholampra</i>	large one
$\frac{52 \frac{1}{4}}{82 \frac{3}{4}}$	<i>Triceratium</i>	shows processes at angles
$\frac{59}{28}$	<i>Antholampra</i>	Small one
$\frac{42 \frac{3}{4}}{64 \frac{1}{2}}$	"	brays-
$\frac{48 \frac{1}{2}}{70}$	<i>Antholampra</i>	Small. 2 valves. E. of a vertical bit of the nondescript -

No. 1210 E' Barbadoes.

$62\frac{3}{4}$ Lithocyclus. fine large one with spine
 $85\frac{3}{4}$
 $43\frac{1}{2}$ "
 $72\frac{7}{8}$

No. 1211 F' Barbadoes.

$38\frac{3}{4}$ Coscinodiscus nobilis Johnson.
 27
 $35\frac{2}{3}$ Asterobampra? 8 rays. (Johnson's form)
 $33\frac{3}{4}$
 43 Disc with punctate centre, and narrow
 37 festooned margin - (near lower end
of blue fibre which points to it.)
 $54\frac{1}{2}$ Arachnodiscus? Small one near upper
 64 part of ring or right
hand side.

No. 1212 G. Barbadoes

39 1/4 Liostephania
7 1/4
35 7/2 Coscinodiscus nobilis Johnson, broken -
60 1/2 large one near a
36 Disc with nucleus and festooned margin -
62+ broken
41 " " broken
26+

No. 1213 H. Barbadoes

45 Coscinodiscus nobilis Johnson
69 1/2
41 " "
27+

No. 1214 J' Barbadoes
40
39/4 *Petalospyris draboliscus* Ehr.

No. 1215 J' Barbadoes.
37 1/2
85
59
8/3 *rosemodiscus nobilis* Johnson.

No. 1216 K Barbadoes

No. 1217 L Barbadoes.

No. 1218 M' Barbadoes

No. 1219 N' Barbadoes-
Asterobampsa?

No. 1220 O' Barbadoes, Springfield

No. 1221 P' Barbadoes

No. 1222 Q' Barbadoes

No. 1223 R' Barbadoes.

No. 1465 Slide St.
Symphonema

Gregory:
Registered by R.C. Greenleaf
C-1

30
28
50
29

Bocconema lanceolatum

35
11

Stauroneis aspera $\frac{39}{19} = \frac{35}{18}$

Nauicula praetexta 34
34

Diadesmis? $\sqrt{40}$
30

Prinularia alpina? $\frac{40}{23} = \frac{41}{24}$

P. distans $\frac{19}{33} = \frac{19}{34}$

Synedra Kennedyana $\sqrt{15}$
27

what $\frac{16}{16}$ disk
17

Nau. Smilbii, var *B. fusca*

17
27
17
28

what $\frac{16}{35}$

Coscinodiscus - Denticula marina 20
29

Nauicula spectabilis $\frac{22}{31} = \frac{22}{32}$

N. clarata 22
21

N. bombus $\frac{25}{17} = \frac{23}{11}$ *damusfulds*

Podocira maculata

Bocconeis distans $\sqrt{28}$
19

No. 1466 Slide P. Req^d by R. C. Greenleaf:
 C-3.

Hyaliscus ... 27
 18

Triceratium or ... 20
 30

Amphitetras, very coarse granules arranged in
 {circles - antediluvian

Nauicula? *splendida* 19
 29

Plenosigma *strigosum* 15
 24

Diadesmonis? *Williamsoni*. 13
 24
 13
 25

Amphora 12
 27
 12
 28

Nauicula *spectabilis* .. 16
 28

Denticula *marina* 26
 30
 27
 31

Nauicula. *va. Smithii*. 30
fusca. 29 36
 30
 37

Amphitetras 13
 13

Grammatophora *serpentina* 16
 13

Plenosigma *decorum* 28
 18

No. 1467 Slide C. Reg^d by R. C. Greenleaf-
C-5

<i>Phenacogramma</i>		$\frac{14}{26} = \frac{39}{27}$
Nar ^m <i>Hennedyi</i>	$\frac{39}{26}$	
<i>Loeconeis distans</i>	$\frac{39}{27}$	
<i>finu specimen</i>	$\frac{13}{25} \frac{14}{25}$	
<i>Grammatopora serpentina</i> side . . .		$\frac{19}{25}$
<i>Narculea spectabilis</i>		$\frac{18}{23}$
<i>Stauroneis aspera</i> fragments		
<i>Dradlesmia</i>		
<i>Denticula</i>		

No. 1468 Slide D. C-6

$\frac{39}{27}$ *Amphitetras antideluviana*

No. 1469

Slide E-

Gregory 5-2

Registered by C.S.

- 30 Amphora excisa Gray.
35x
- 37 } Nav. brevis
24 }
- 20 Denticula marina
x 33
- 27 } Pri. allemanii }
33 }
28 } Coccineis armata }
33 } varicella suborbicularis
- 16 } Nav. miltensis
12 }
- 15 } N. fusca
9x }
- 10 } N. spectabilis
20 }
- 26 x } Synedra Kennedyana F.V.?
10 }
- 25 } Coccineis distans Gray } fig. does not agree
18 } with his description.

Wenburn Sand

No. 1470 Slide F

F=2

Gregory
Regd. by R.C.G.

21/22
27/27

Cocconeis distans 30
30

27 =
27

Navicula bombus " 30
30
50
10

31/32
28/28

N. spectabilis 36
30
36
31

23
20

N. Kennedyi

13
15

N. clavata

12
22

Pinnularia Pandura? var. *elongata*

32
18

Symphonema geminatum

29
21

var. *lyra* 32/33
28/23

frequent

Grammatophora serpentina
" " *maculatum*

24
19

Cocconeis discus?

34
18

Rhabdonema

34
19

Cocconeis see *ornata*

frequent

Pinnularia distans 30
31

24
12
24
18

Cocconeis discus nitidus

39
14

N. Smithii var. *nitescens*

22
24
22
25

" " *fusca*

14
26

Synedra undulata Gregory.

Toxarium undulatum Bailey

20
26

what? a singular object, broken

12
27
28

Synedra Kennedyana Gregory

11/12
22/22

Katzchia?

21/22
18/28

var. *Smithii* var. *suborbicularis*

29
30
31

Synedra baculus 30
21

var. *maxima* one

30
31

" *Synedra* narrow var.

30
30

var. *angulosa* or var. *palpebrata*?

33/34
31/31

Pleurosigma formosum.

No. 1471 Slide G.

"Gregory M.D. 57"

$\frac{24}{25}$ *Plenusigma variculaceum*

33 *Synedra Hemedyana* ²³ Greg. ²⁴

31 ²³ one from Kent. ²⁵ *Toxarium* B.

$\frac{22}{31}$ = *Cocconeis distans*

$\frac{22}{32}$ *Grammatophora serpentina*

$\frac{30}{28}$ *Navicula Smithii* var. fusca

$\frac{24}{26}$ = *Emotia liron*

$\frac{24}{17}$ *Grammatophora marina*

$\frac{14}{24}$ *Cocconeis pseudomarginata*

$\frac{23}{18}$ *Navicula lyra*

$\frac{18}{18}$ = *Odontidium*

$\frac{29}{19}$ *Grammatophora maculatum*?

$\frac{16}{18} | \frac{17}{18}$ = *Gomphonema olivaceum*

$\frac{17}{13}$ = *Biddulphia*

$\frac{28}{18} | \frac{29}{18}$ *Navicula Libellus* ^{see pp VII. 71}
^{see Menckia}

$\frac{27}{18} | \frac{28}{18}$ *Rhabdonema*

$\frac{12}{17}$ *Plenusigma*?

Cymbella lurgida

$\frac{25}{15}$ *Toxarium undulatum*, Bailey

$\frac{25}{14} | \frac{26}{14}$ *N. lyra*, small va.

No. 1442 Slide 8. (9-10')
24

Amphiprora lepidoptera

23 - *Pleurosigma* - ? sp.

41 - *Vitzchii* - ? sp.

18
40 = *Cocconeis plendomarginata*

18
41 C *diupta*, frequent.

32
39 = *Synedra* | 21 - *Baculus*? Gregory

x 16
37 *Prunularia distans*

x 16
38 18
37 *Pleurosigma* Is this form described
18
38 by Gregory - pg 1 *Blenshira*?

24
38 *Nar^a lyra*, small

30
36 = *N. amphibaena* Smith

... *Stauroneis aspera*, abundant

30
36 - *Pleurosigma intermedium* Smith

27 | 28
36 | 36 *Amphiprora complexa*

" *Grammatophora serpentina*

Schnanthes

Cocconeis scutellum

20
26 = *Epithemia gibba*

16
25 = *Suriella constricta*
S. lata abundant

21 = *Marcula clarata*
17

No. 1473 Slide I.

Gregory 4.d.
1905

elegant specimen 15
28

$\frac{28}{25}$ Actinocyclus Rulfsii Greg.

$\frac{24}{25}$ Amphiprora complexa Greg.

Smirella $\frac{21}{21}$ lata N.S. ... $\frac{36}{24} \times$
 $\times \frac{37}{23}$

$\frac{24}{25}$ Amph. lepidoblera Greg.

$\frac{20}{31} \frac{21}{31}$ Coeconeis diuipata Greg. $\frac{39}{30}$

$\frac{21}{27}$ Amphitetras antideluviana
 $\frac{21}{28}$

$\frac{33}{28} \frac{34}{28}$ Grammatophora serpentina very large -

$\frac{20}{22}$ side V -

$\frac{29}{22}$ Campylodiscus rimlandi

$\frac{21}{21}$ edge view ?

$\frac{20}{11} \frac{21}{11}$ Coeconeis rhombifera Bailey.

No. 1474 Slide J. Gregory 5d
(3) 5'

$\begin{array}{r} 33 \\ 37 \end{array}$ Gomphonema geminatum

$\begin{array}{r} 24 \\ 36 \end{array} \left| \begin{array}{r} 25 \\ 36 \end{array} \right.$ Navicula pandura Preb.

$\begin{array}{r} 21 \\ 24 \end{array}$ N. latissima long - Gregory

$\begin{array}{r} 35 \\ 34 \\ 35 \\ 36 \end{array}$ N. Bombus $\begin{array}{r} 28 \\ 18 \\ 28 \\ 19 \end{array}$ long

$\begin{array}{r} 33 \\ 33 \end{array}$ Campylodiscus angularis, Greg.

$\begin{array}{r} 27 \\ 32 \end{array}$ C. = decarnis Pt 5 800

$\begin{array}{r} 16 \\ 32 \end{array}$ = Campylodiscus - notice the granulated costa Edge 2

$\begin{array}{r} 12 \\ 24 \\ 12 \\ 25 \end{array} \left| \begin{array}{r} 15 \\ 29 \end{array} \right| \begin{array}{r} 16 \\ 29 \end{array}$ = C. Horologium Smith

$\begin{array}{r} 40 \\ 18 \end{array}$ = Var. latissima, short.

No. 1475 Slide K. Gregory 20 d (3) 10

28 *Campylodiscus eximius*
7

12^x *Nar. maxima* Greg.
14

29 *Campylodiscus decarnus* Bieb.
13

- - *fastuosa*

10 *Campylodiscus limbatus* Bieb.
31

16 *Nar. nebulosa* Greg.
37

Nitzschia panduriformis 13
16

Amphiprova elegans 26
16

Diatelasma Williamsoni 26
18

Smirella fastuosa abundant

Nitzschia diolans 25
20

Plenosigma formosum 25
21 2/2

Nitzschia

Prinnularia varicilis } 22
22

Campylodiscus } 22

Plenosigma rigidum 13
26

Triblionella marmorata 12
23

Campylodiscus eximius 15
24

Nitzschia figmatella 19
22
19
23

Gomphonema geminatum 12
23
12
24

No. 1476 Slide L. Gregory

No. 1477 Slide 1^a Neuse River N.C.

Podosphemia Ehrenbergii

Navicula oralis and *Smithii*

34
21

Amphiploosium cribratum

Epithemia turgida, common

E. musculus

Ublionella gracilis

11 = 15
20 = 29

Navicula ?

41 = 20 21
23 = 23 32
41 = 20 21
24 = 33 34

Amphiprora alata

Terplimoe musica

30 31
29 29

Navicula punctata

Amphora spectabilis ? Gregory

Smirella splendida

18 = 27 28
25 = 20 30

Smirella ? Like *Wylei* Pond specimen slide 6

28
20
24
21

Achniochilus undulatus

Nitzschia scalaris

Navicula lyra

17
21

?

Himantidium

Nitzschia sigmoidia

34
16

N. ?

26
21

N. ?

37 = 36
18 = 21

Nitzschia ? Is this *Brightwellii* ?

28 29 30 31
18 18 = 19 19
20

Navicula ?

36
17

what ?

Pleurosigma Baltica

37 | *Smirella striatula*

20
21
20
28
Navicula "

Synedra

10
27
10
28

Navicula ?

No. 1478 Slide 1 b. Wense River N. C.

No. 1479 2 a Mystic Pond Mass.

No. 1480 2 b Mystic Pond Mass

No. 1481 Slide 3 a Hull Inlet, Mass.

Pleurosigma Balticum

? *elongatum* *orthus*

Navicula lyra

Amphora

Amphiroza alata

Navicula didyma

Epithemia

Navicula Smithii

Stauroneis

Coscinodiscus

Mitschlia

No. 1482 H a Peat Great Kill

No. 1483

Slide 5a

St. George River, Me.

34 | 35
14 | 14

Rhabdonema

27
18-

Hyalodiscus subtilis

24
15

Grammatopora serpentina

Achnanthes fragment

15
17

Phenacogramma strigosum

32

24

32

25

Navicula indica

Grenelle 1 x J 13

July 1862-

21

25

21

26

Phenacogramma pallida

Campylodiscus

No. 1484 Slide 6 St. Georges River, Maine

- 18
29
18
30
31
29
31
30
29 = 25
13 = 27
25 = 28
26 --
19
20
- Campylodiscus* ?
- Rhabdonema arcuatum*
- Nitzschia* ? new
- Campylodiscus*
- Navicula cuspidata*
- Piddulphia aurita*
- 15 | 16 32
24 | 24 23
 32
 24
- Rhabdonema* ? 26
 24
- 39
19
- Navicula lyra*
- 30
19
- Cocconeis* ? like $\frac{35}{17}$... beautiful
 $\frac{35}{18}$
- 37 | 38
18 | 18
37 | 37
19 | 20
- Nitzschia angularis*
- Grammatophora* ?
- 20
19
- G. marina*
- 31
16
31
17
- Rhabdonema minutum* ?
- 35
21
- Navicula granulata* Bailey 35
 21
- 26
17
- N. latissima* & *granulata* Pritchard
- 21
17
- Gomphorema curvatum*
- 24
15
- Stansoneis aspera* abundant
- 22 | 23
16 | 16
- Navicula Smithii*
- Nitzschia sigma*
- 27 | 28
16 | 16
- Stylodiscus subtilis* broken
- 29
24
- Cocconeis fentellum* fragment
- 32 | 33
16 | 16
- Grammatophora maculatum*
(macilentus)
- 14
24
14
25
- Plenosigma fasciola*
- 29
24
- Epihemia granulata*
- 25 = 32
14 = 24
- Cocconeis* ?
- Prinularia directa* frequent
- 35 | 19
27 | 24
- Plenosigma angulata* ? fine striae
- 36
23
- Navicula rhombica* ? (Pritchard)

Slide 6. (Continued)

Actinocyclus undulatus, fragment

28-
15-
28
16 *Navicula oralis*

28
16 *Trichionella?*

30
13 *Navicula* very small *V. Smithi*

27/28
33/33 *Trichionella acuminata?* $\frac{35}{15} = \frac{22}{16}$

35-
17-
35-
18 *Cocconeis placentula?*

$\frac{16}{13}$ *Navicula lypa* n.?

$\frac{26}{22} = \frac{26}{23}$ *Culiscus* *lucello*

26
29 *What?* *Biddulphia*

33
30 *Orthosira?*

21
23 *Prinnularia distans*

Plenosigma Baltica

Isthmia broken

Navicula didyma

No. 1485.

Slide 7a

Bottom of Lemis Lake
C. G. Bush.

No. 1515

Slide No 8. Newberry -
Podega, Sonora Co. Cal.

No. 1516

Slide No 9. Newberry -
Pit River. Sonoma Co. Cal.

No. 1517

Slide No 10 Newberry-

Pit River

No. 1518

Slide No 12 Newberry-

Pit River - 20 miles

above Upper Canon

No. 1519

Slide No 14. Newberry-
Plain about Klamath Lake

No. 1529

Slide No. 25- Newberry-
Hills ab Dallas

No. 1521

Slide No. 26. Newberry.

Mud of Lakes, Cascade Mts.

60 1/4	<i>Gomphonema geminatum</i>	
70 7/8		
65	<i>Amphicampa mirabilis</i> Ehr.	65
60 1/8	See Mik. Pl. 33. VII fig. 2	60 1/4
	<i>Cocconeis aspera</i>	68 3/4
		71 1/2
	<i>Stauroneis pinnata</i> Ehr.	"
	S. E. of last	
	<i>Cocconeis</i> - numerous specimens	68 1/2
		26 1/4
	<i>Surirella splendida</i>	67
		64
	<i>Surirella</i>	66 3/4
		66
	<i>Cocconeis</i>	66
		60
	<i>Gomphonema</i>	63 1/2
		73 3/4
	<i>Nairicula</i>	60 1/2
		73 1/4
	<i>Epithemia</i>	59 1/4
		83 3/4
	<i>Gomphonema geminatum</i>	58 1/4
		26
	<i>Gomphonema</i>	53 3/4
		71 1/2
	<i>Cyclotella</i>	53 3/4
		86 1/4
	<i>Cocconeis</i>	52 1/4
		87 1/2
	<i>Prunularia</i> ribbed	48
		69 3/4
	<i>Cyclotella</i>	47 3/4
		79 1/4
	<i>Gomphonema geminatum</i>	46 1/4
	" " ? side view	71
		45 1/2
		72 1/2
	<i>Campylodiscus</i>	43 1/2
		64 1/4
	<i>Cymatopleura elliptica</i> ?	37
		84 1/2
	<i>Nairicula Spenceri</i> ?	36 3/4
	S. of a brown jointed spicule?	80

No. 1522 Slide No 26. Newberry

$\frac{37}{79}$ Campylodiscus

No. 1523 Slide No 29. Newberry.
Klamath Lake

No. 1524 Slide No. 32 Newberry - Shoal water Bay

56 ¹ / ₄	<i>Coscinodiscus</i>	Stage
73 ³ / ₄		56 ¹ / ₃
49	<i>Prinularia</i> fragm. with large ribs.	73 ³ / ₄
78 ¹ / ₈	" whole one	48 ¹ / ₈
53 ³ / ₄		74 ³ / ₄
26 ¹ / ₈		53 ³ / ₄
		26 ¹ / ₈

Denticella auritum Ehr. St. of a large brown spot

Emmotia 4 toothed

Epithemia

Gomphonema Small one
(record incomplete)

41	<i>Nitzschia</i>	40 ³ / ₄
74 ³ / ₄	"	74 ¹ / ₄
38 ³ / ₄		38 ¹ / ₂
79 ³ / ₄	<i>Prinularia</i> <i>Digitis</i> , large one	79 ¹ / ₄
38 ¹ / ₈		38
71 ¹ / ₂	<i>Synedra</i> ? or <i>Nitzschia</i>	71 ¹ / ₄
37 ³ / ₄	<i>Navicula</i> <i>Baltica</i>	37 ³ / ₄
6 ¹ / ₄		63 ¹ / ₂
42 ¹ / ₂	<i>Nitzschia</i>	42 ¹ / ₂
60 ¹ / ₂		60 ¹ / ₂
43 ⁷ / ₈	<i>Prinularia</i> <i>peregrina</i> ?	43 ³ / ₄
73 ¹ / ₄		72 ¹ / ₂
38		38
78 ³ / ₄		78

No. 1525 Slide No. 33 Newberry - Shoal Water Bay

		Stage
57 7/8 63 1/2	<i>Coscinodiscus</i> broken	57 7/8
70 1/2 69 1/4	<i>Prinia</i> <i>Digitus</i>	70 1/2 69 1/4
	"	68
	<i>Actinopterychus</i>	71 1/2
	<i>Nitzschia</i>	67
	<i>Campylodiscus</i> ?	69 1/2
	<i>Bocconema aspera</i>	66 1/4
		65
		29
63 1/2 73	<i>Pyxidicula</i> ? <i>elliptica</i> B.	64 1/2
		75 1/2
63 1/2 69 1/4	<i>Nitzschia</i> 2 valves separate	63 1/2
	<i>Prinia</i>	75 1/4
		63 1/2
		69 1/2
		62 1/2
		83
	<i>Pyxidicula elliptica</i> ? N.W. of last	"
61 1/2 76	<i>Epithemia</i>	61 1/2
		75
60 61	<i>Surirella</i> ?	60
		61 1/4
	<i>Bocconema Ehrenbergii</i> "	56
	<i>Prinia macynalis</i>	72
	<i>Bocconema</i> n. sp.?	50 3/4
		72 1/4
45 3/4 72 1/2	<i>Surirella</i>	45 3/4
		73 1/2
44 78 1/4	<i>Nitzschia</i> good one	44
		78
42 7/8 63 1/4	<i>Tetracyclus lacustris</i>	42 3/4
		63
42 3/4 25 1/4	<i>Navicula</i> (<i>maculata</i> ? B.)	42 3/4
		25 1/4
37 3/4 63 1/4	<i>Campylodiscus</i> new	37 3/4
		63 1/2

No. 1526

Slide No. 34 Newberry-

Rhett Lake

Recent Diatoms from Podega Bay
California

No. 1527 Slide to:

$\frac{56\frac{1}{4}}{72}$	<i>Arachnoidiscus Ehrenbergii</i> B.	
$\frac{68\frac{1}{2}}{73\frac{3}{4}}$	<i>Aenlacodiscus Oreganus</i> Hor. et Baird.	
$\frac{64\frac{1}{4}}{74\frac{1}{2}}$	<i>Cosmodiscus</i> ?	fine markings
$\frac{65\frac{1}{4}}{76\frac{3}{4}}$	<i>Aenlacodiscus Oreganus</i> No B.	10 feet
$\frac{58}{67\frac{3}{4}}$	"	17 "
$\frac{57\frac{7}{8}}{68\frac{1}{2}}$	"	12 "
$\frac{57\frac{1}{2}}{75\frac{1}{4}}$	"	13 "
$\frac{55\frac{3}{4}}{85\frac{1}{2}}$	"	18 "
$\frac{57\frac{1}{4}}{78\frac{1}{4}}$	"	14 "
$\frac{44}{64\frac{3}{4}}$	"	12 "
$\frac{38\frac{1}{4}}{67\frac{1}{4}}$	"	14 "
$\frac{34}{65\frac{3}{4}}$	"	12 "
$\frac{42}{72\frac{1}{2}}$	"	20 "
$\frac{44\frac{1}{8}}{65\frac{1}{4}}$	"	oblique view
$\frac{63}{72}$	"	" "
$\frac{57}{66\frac{1}{4}}$	<i>Cyclotella magna</i> B. ined.	
$\frac{56}{73\frac{1}{2}}$	<i>Isthmia obliquata</i> ; many other specimens (of this one on the slide)	
$\frac{55}{64\frac{1}{4}}$	<i>Ceratulus virgidus</i> ? Ehr. (= <i>C. californicus</i> (B. ined.))	$\frac{68}{71\frac{1}{2}}$
$\frac{53\frac{1}{2}}{72}$	<i>Actinoplychnus superbus</i> B. ined.	
$\frac{51}{68}$	<i>Aenlacodiscus</i> Grun? Ehr.	4 feet
$\frac{50}{77\frac{1}{4}}$	<i>Ceratulus virgidus</i> ? Ehr.	
$\frac{48}{78\frac{1}{4}}$	<i>Hyalodiscus californicus</i> a beautiful test object for $\frac{1}{4}$ " or $\frac{1}{8}$ " objective	
$\frac{47\frac{3}{4}}{67\frac{1}{4}}$	<i>Hyalodiscus californicus</i>	
$\frac{51}{83}$	"	"
$\frac{44}{63}$	<i>Stauroptera aspera</i> Ehr.	side view
$\frac{39\frac{7}{8}}{64\frac{3}{4}}$	"	top "
$\frac{65}{67}$	<i>Triceratium alternans</i> ? C.S.	
$\frac{60}{78}$	Am. Oreganus 15 feet. single valve C.S.	

Small *Biddulphia*
a. s. Baird

No. 1528 Slide B. "Cerrum da Tripali"

$\frac{58}{61\frac{1}{4}}$ *Heliofelta Euleri* Ehr. (10 rays)

$\frac{56}{68\frac{1}{8}}$ " " "

$\frac{51}{56\frac{1}{4}}$ " " "

$\frac{42\frac{3}{4}}{64\frac{1}{8}}$ " *Leuwenhaevii* Ehr. 8 rays

$\frac{42\frac{1}{2}}{64\frac{1}{4}}$ *Lygoceros? circularis* B ined. N.E. of last

$\frac{44\frac{1}{8}}{58\frac{3}{4}}$ *Triceratium undulatum* Ehr.
near a blue *Heteroptylchus*-

$\frac{55}{29\frac{1}{8}}$ *Cheloceros diflorus* Ehr.

$\frac{44\frac{1}{8}}{79\frac{1}{4}}$ *Triceratium* (Small one seen edgewise)

" *Asteromphalus*. Small one, touching the last on the East.

$\frac{54}{78\frac{1}{2}}$ *Mastogonia* 7 rays

$\frac{60\frac{1}{4}}{77}$ *Strophitetras?* Small one. N.W. of an *Actinoculus*
{in same field.

$\frac{60\frac{1}{8}}{69\frac{1}{4}}$ *Coscinodiscus omphalanthus?* } Ehr.

" *Coscinodiscus oculus iridis?*

" *Triceratium* W. of last.

$\frac{44\frac{1}{4}}{86\frac{1}{4}}$ *Eupodiscus quaternarius* Ehr.

$\frac{46}{27\frac{3}{4}}$ *Coscinodiscus oculus iridis?* Ehr.

" *Sceptroneis caducens* Ehr. touching last.

" *Sceptroneis caducens* " 2 fragments
{crossing, just above the *Coscinodiscus*

$\frac{21}{43}$ No descript. touching *Coscinodiscus*

- No. 1529 Slide 6. Richmond, Va.
- 55 1/8 *Coscinodiscus gigas* Ehr. large
58
- " " " " Small one.
- " " *oculus iridis* Ehr. " " touching last.
- 62 1/4 " *gigas* Ehr.
63 3/4
- 68 3/4 " *margimatus* Ehr. (Small)
69 3/4
- " " *gigas* Ehr. E. of last.
- 68 1/4 " *lineatus* Ehr.
73
- 67 3/4 *Dicladia?* nov. sp. (Small)
71 1/4
- 62 *Coscinodiscus lineatus* Ehr.
67 1/4
- " *Mesocena circularis* Ehr. N. of last.
- 60 1/2 *Coscinodiscus perforatus* Ehr.
69
- " *Systephania?* touching upper margin of last.
- " *Dictyocha* *lens* N.E. of last.
- 61 1/2 *Chaetoceros incurvum* B. { N. of a broken
28 3/4 } loose *lineatus*
58 3/4 " " (singulum with 4 horns)
75
- 58 1/2 " " 2 horns broken touching a bit of
72 1/10 } loose *margimatus*.
- 59 *Chaetoceros* n. sp. S.E. of a broken *Coc. gigas*.
63 1/4
- 57 3/4 *Coscinodiscus gigas* Ehr.
69 1/4
- " " *oculus iridis?* Ehr. 2 specimens touching last.
- 60 *Navicula (Syrosigma) sigma* Ehr. at S.E. corner
80 1/8 of a spot of lamp black.
- " *Chaetoceros*. S. of spot of lamp black
- 50 7/8 *Denticella* } *tridentata* Ehr. Vido view
69 1/2 *Biddulphia* }
- 49 1/4 *Biddulphia neglecta* B. med.
72 3/4
- " *Actinocyclus Pyridicula* Ehr. S.S.W. of last touching a broken ring.
- 48 1/2 *Navicula (Syrosigma) sigma* Ehr. near upper
78 1/3 } end of a long bit of *Synedra*
- 43 1/4 *Gallionella sulcata* Ehr. forming a column.
67 3/4
- 43 7/8 *Palearium Virginicum* B. med.
78 2/3 touching E. margin of a *Coscinodiscus*.

No. 1589 Slide 6. (Continued.)

42) Actinopterygus octodentatus Ehr.

72

"

"

"

N. E. of last

"

Dictyochoa curv. 2 specimens in lower part
of field. }

No. 1530 Slide D. Maryland - Piscataway

$63\frac{2}{3}$ *Heterolampra Marylandica* Ehr.

$58\frac{1}{4}$ " "

76 " "

$45\frac{1}{4}$ " "

$69\frac{1}{2}$ *Loosmodiscus oculus-iridis?* Ehr.

52 *Denticella tridentata* Ehr.

$69\frac{1}{4}$ *Rhaphoneis rhombus*

59 *Mastogonia* near last

17 *Loosmodiscus*, showing structure well.

$52\frac{1}{4}$ " *oculus-iridis* Ehr.

$67\frac{3}{4}$ " *oculus-iridis* Ehr.

$50\frac{1}{8}$ " *oculus-iridis* Ehr.

66 *Gomothecium* top view

48 *Loosmodiscus pyxidicula* Ehr.

$67\frac{1}{4}$ *Omphalopelta areolata* Ehr.

$42\frac{1}{8}$ *Mesocena triangularis*

$74\frac{1}{3}$ *Mesocena triangularis*

39 *Mesocena triangularis*

$70\frac{1}{4}$ *Mesocena triangularis*

$48\frac{3}{4}$ *Mesocena triangularis*

67 *Mesocena triangularis*

44 *Mesocena triangularis*

65 *Mesocena triangularis*

No. 1531 Slide E. Altamaha River - Georgia

$\frac{46\frac{3}{4}}{81\frac{3}{4}}$ *Enpodiscus radiatus* B. (Rice field earth)

$\frac{63\frac{1}{4}}{72\frac{1}{2}}$ " "

$\frac{59\frac{1}{2}}{74\frac{1}{2}}$ " "

$\frac{57}{77\frac{1}{2}}$ " "

$\frac{40}{67\frac{1}{2}}$ " " slightly deformed

$\frac{62}{75}$ *Triceratium farns* Ehr.

$\frac{61\frac{1}{4}}{78\frac{1}{4}}$ " "

$\frac{51\frac{1}{2}}{79\frac{1}{4}}$ " "

$\frac{59\frac{3}{4}}{77}$ *Bosidulphia* } *tridentata* Ehr.
Denticella }

$\frac{54}{77\frac{1}{2}}$ *Amphitetras ornata* Shadboll. 5 angled variety

$\frac{49}{63\frac{3}{4}}$ *Enpodiscus germanicus* Ehr. 3 feet.

$\frac{47}{61\frac{1}{4}}$ " *quaternarius* Ehr. 4 "

$\frac{49}{76\frac{1}{4}}$ *Zygoceros rhombus* Ehr.

$\frac{46\frac{1}{4}}{61}$ " "

$\frac{46\frac{3}{4}}{78\frac{1}{8}}$ " "

$\frac{46}{68\frac{1}{4}}$ *Terpidinae musica* Ehr. seen obliquely

$\frac{45\frac{3}{4}}{73\frac{1}{4}}$ *Leoscimodiscus oculus iridis?* Ehr.

Fossil (fluviatile) Diatoms

No. 1532 Slide F West Point N.Y.

$\frac{65}{70}$ *Navicula inaequalis* Ehr. 4 specimens

$\frac{54\frac{3}{4}}{71\frac{1}{4}}$ *Stauroneis Baileyi* Ehr.

" *Eunotia tetradon* touching W. of last.

" *Navicula dilatata*, just N. of *Staur. Baileyi*.

$\frac{46\frac{1}{4}}{73\frac{1}{2}}$ *Navicula inaequalis* Ehr. } vertical

" *Stauroneis Baileyi* " } and
slide by side

$\frac{41\frac{7}{8}}{69\frac{3}{4}}$ *Stauroneis Baileyi* "

" *Navicula inaequalis* " touching end of last.

$\frac{54\frac{7}{8}}{64\frac{3}{4}}$ *Amphidiscus rotula* Ehr. 2 specimens together

" *Navicula inaequalis* Ehr. (= *Spongiolites*)
W. of above

" *Stauroneis gracilis* Ehr. N. of last.

$\frac{56\frac{1}{8}}{65\frac{3}{4}}$ *Amphidiscus unchora* Ehr. lying across a
bit of *Pinnularia*

$\frac{55\frac{3}{4}}{75\frac{1}{4}}$ *Loxonema aspera* Ehr.

" *Navicula inaequalis*, just below last.

$\frac{41\frac{1}{8}}{81\frac{1}{8}}$ *Spongiolithis aspera* Ehr.

$\frac{63}{73}$ *Navicula Baicillum* Ehr. (small.)

" " " N. W. of last

$\frac{62\frac{1}{2}}{67\frac{3}{4}}$ *Eunotia univodan* Ehr.

No. 1533 Slide G. Blue Hill Pond, N.H.

52 *Primmularia gigas* Ehr.

61

59 1/8

73 2/3

60

69 2/3

59

67 7/8

55 1/8

75 1/2

55

63 7/8

51 1/2

29 1/8

44 1/2

77 1/4

" " "
" " "
" " "
" " "

2 specimens

Sturroncis Phoenicenteron; ...

Suirella splendida Ehr. obscured.

Cocconeum asperum Ehr.

No. 1534 Slide H.

Greenland and other casts of *Polychalania*
from cretaceous rocks, New Jersey, U.S. America

49 $\frac{1}{4}$ Spiral cast of a *Rotalia*

79 $\frac{3}{4}$

57 $\frac{1}{4}$ " " "

73 $\frac{3}{4}$ " " "

48 $\frac{3}{4}$ " " "

71

47

60

portion of spirals, with connecting tubes.

No. 1535. Slide I. Enterkrise Florida

200 miles from Mouth of St. Johns R.

$\frac{50}{8}$ *Terpsinoë mundica* top view

$\frac{70}{4}$

$\frac{60}{2}$

$\frac{78}{4}$

"

" *Achmanthes* near W. of last

$\frac{50}{}$

$\frac{67}{2}$

Terpsinoë mundica

The great mass on the slide is composed
of *Odontella polymorpha* of Kützling.

No. 1536

Slide J.

Monterey
(Lower stratum)

No. 1537

Slide K.

N Lake house
San Francisco

Soundings Atlantic Ocean
No. 1567 Slide A.

Lat. $37^{\circ} 05' N.$ Lon $14^{\circ} 30' W.$

140 Fathms

No. 1568 Slide B.

136 Fathms

Lat. $44^{\circ} 41' N.$ Lon. $24^{\circ} 35' W.$

No. 1569

Slide C.

1360 Fathoms

Lat. $44^{\circ}41'N$. Long. $24^{\circ}35'W$.

No. 1570

D.

1360 Fathoms

Lat. $44^{\circ}41'N$. Long. $24^{\circ}35'W$.

No. 1571

Slide E.

1360 Fath.

Lat. $44^{\circ}41'N$ Long. $24^{\circ}35'W$.

No. 1572

F.

1580 Fathoms

Lat. $49^{\circ}56'$ Lon. $13^{\circ}13'45''W$.

No. 1543

Slide G.

1580

Fathoms

Lat. $49^{\circ}56'20''$ N. Lon. $13^{\circ}13'45''$ W.

No. 1544

Sl.

1580

Fathoms

Lat. $49^{\circ}56'30''$ N. Lon. $13^{\circ}13'45''$ W.

No. 1575

Slide I.

2000 Fathoms

Lat. $54^{\circ}17'$ N. Lon. $22^{\circ}33'$ W.

No. 1576

J.

2000 Fathoms

Lat. $54^{\circ}17'$ N. Lon. $22^{\circ}33'$ W.

No. 1577 Slide K. 1300 Fathoms
Ground of Ocean

No. 1578 L. 1360 Fathoms
Lat. $44^{\circ} 41' N$. Lon. $24^{\circ} 35' W$

No. 1579 M. 1360 Fathoms
Lat. $44^{\circ} 41' N$. Lon. $24^{\circ} 35' W$

No. 1580 Slide N. 33 Fathoms

Lat. $0^{\circ} 29' 58''$ S. Long. $45^{\circ} 56' 35''$ W.

No. 1581 Slide O. 2150 Fathoms

Lat 13° S. Long. 162° E.

No 1581 $\frac{1}{2}$ Slide O. Same as above

No. 1582 Slide P. Atlantic Ocean
2280 Fathoms
Ship Villa de Bilbao Lat. $0^{\circ} 21' N.$ Lon $23^{\circ} 28' 52'' W.$

No. 1583 Q. Atlantic Ocean
Ship Villa de Bilbao Lat $0. 21 N.$ Lon $23^{\circ} 28' 52'' W.$

No. 1584 Slide R. Atlantic Ocean 2280 f.
Ship Vella de Hebra Lat. 41' N. Lon 23° 28' 52" W.

No. 1585 J. Deep Sea Soundings
Rhopalustrum lagenosum Ehr.

No. 1586 Slide L Atlantic Ocean
Ship Villa de Bilbao - Lat 0.21' N. Lon. 23° 28' 52" W.
2280 Fath.

No. 1587 M.
Lines parts -

Atlantic Ocean
2280 Fathoms.

Perry's Japan Expedition -

No. 1588

Slide St. (31 St.)

54 1/4
70

Denticella tridens Ehr. 2 frustules, small

52 1/8

"

"

"

longer

71 1/2

"

"

4 "

Large

42

63

No. 1589

Perry - B.

(31 B.)

No. 1590 Perry C. Band No. 1
washed from a Sargassum.

148
28 3/4

140 1/8
38 1/2

Entopyla 2 frustules

No. 1591 Perry D. Jeddah Bay

57 1/4 Anlacodiscus -
84 1/4

57 3/4 Strachnoidiscus japonicus
88

64 1/4 Dentocella beddardii top view
28 1/3

45 Anliscus -
82 1/2

61 Nitzschia
31

61 Tetragramma 2 frustules
27 1/4

No. 1592 Perry E.

Jeddah Bay. 24

51 $\frac{1}{4}$ *Stenacodiscus*

71 $\frac{1}{2}$
41 $\frac{1}{2}$ *Strachnordiscus*

62 $\frac{1}{2}$

34 $\frac{3}{4}$

61 $\frac{3}{4}$

"

No. 1593 Perry J.

42 $\frac{7}{8}$ *Campylodiscus*

73 $\frac{3}{4}$

49 $\frac{7}{8}$

40 $\frac{1}{2}$

52 $\frac{1}{4}$

76 $\frac{1}{2}$

53 $\frac{3}{4}$

29 $\frac{1}{4}$

46

77

47

28 $\frac{2}{3}$

49 $\frac{3}{4}$

24 $\frac{1}{2}$

2 frustules of *Tetragramma*?

Campylodiscus

Cyclotella Kützingerii?

Nitzschia

Diploneis

Steniscus

No. 1594 Perry - G. Jeddah Bay ^{May 11 - 1850}
 sent to Judge Johnson

- | | |
|--------|--|
| 46 1/4 | Amphitetras - with Denticella tridens near it |
| 76 1/4 | Stuliscus |
| 37 1/2 | |
| 80 | |
| 57 1/2 | Campylodiscus partly obscured. |
| 82 | |
| 36 1/2 | Stulacodiscus |
| 96 | |
| 58 3/4 | Strachnoidiscus |
| 86 | |
| 63 | Amphitetras |
| 73 1/4 | |
| 69 | Stuliscus - deformed |
| 64 1/2 | |
| 69 | Amphitetras? rhombic form, ^{on other slides} several seen |
| 85 1/2 | |
| 54 1/8 | Stulacodiscus |
| 67 1/4 | |
| 42 1/4 | Strachnoidiscus |
| 71 1/2 | |
| 36 1/2 | Stulacodiscus - dark. look at it as ^{object} opaque |
| 85 | |
| 45 1/2 | Stulacodiscus |
| 84 1/8 | |
| 30 | Strachnoidiscus |
| 61 1/2 | |

No. 1595 Perry H. S. Side of Japan
 50 1/4
 30 1/2
 Stulacodiscus -

Soundings various.

No. 1596 Slide No. Ocean. 1300 Fath.

No. 1597 B. So W. of Sand I.
7 fath. 2 ft.

No. 1598 C. Portim 150 Fath.

- | | |
|--|--------------------------------|
| $\frac{53\frac{3}{4}}{2\frac{1}{4}}$ | Triceratium farns - very large |
| $\frac{42\frac{1}{8}}{80\frac{1}{4}}$ | Podocystis? fragment |
| $\frac{140\frac{1}{8}}{73\frac{1}{4}}$ | Hyalodiscus radiatus good one |
| $\frac{42\frac{3}{4}}{72\frac{1}{4}}$ | Encyrtidium?? |
| $\frac{59}{69\frac{3}{4}}$ | Horn of Chaetoceros falcatum |
| $\frac{32}{73\frac{1}{2}}$ | Halicarya with 3 holes. |
| $\frac{38}{75}$ | Hirtixustum Lambda fragb. |

No. 1599 D. Strs. of Sangar
Hancock No. 1. Rindings 29 fath.

No. 1600. E. Agulhas Bank, S. Africa
Light portions obt'd by floating 70 fath.

No. 1601 F. Edge of Agulhas Bank.
natural state. 70 fath. S. Africa

No. 1602

S.

Key Ascomya 2 1/2 feet.

No. 1603 H.

washed from Sandings Portion 15. 19 feet.

No. 1604.

S.

Inlet Stream - Portion 9 -

100 feet.

No. 1605

1800 Fathoms

(broken)

No. 1606 K.

(broken)

Strophora?

Lat. 0.32'

No. 1607 L.

Coast of Georgia

Triceratium furus Ehr.

Inland passage
60 miles from Jacksonville

No. 1608 M.

Lat 38.04.40 Lon. 73.56.47
90 Fathoms

No. 1609 N.

Lat. 40.59.55 - Lon. 71.48.55
19 Fathoms

No. 1610 O.

Soundings N No. 1 - 90 Fathoms.

By levigation -

Lat 38.04.40 Lon. 73.56.47.

S. E. of Henlopen.

No. 1611 P. Soundings N. No. 2. 10 fathoms
By levigation - Lat. 38. 40. 40 - Lon. 75. 0. 30 -
S. E. of Cape Henlopen -

No. 1612 Q. Soundings N. No. 17 20 fathoms
By levigation - Lat. 38. 29. 56 - Lon. 74. 38. 04
S. E. of Henlopen.

No. 1613 R. Soundings N. No. 67. 50 fathoms
By levigation Lat. 38. 09. 23 Lon. 74. 04. 05
S. E. of Henlopen -

No. 1614 S. Soundings S. No. 27. 20 Fathoms.
By levigation - Lat. $38^{\circ} 41'$ Lon. $71^{\circ} 06'$

No. 1615 S. Soundings S. No. 31- 50 Fathoms
By levigation - Lat. $39^{\circ} 28' 35''$ Lon. $72^{\circ} 44' 35''$

No. 1616 M. St. George's Bank
Peridinium longipes Bailey -

No. 1617 N.
Peridinium

St. George's Bank

No. 1618 N.
Chaetoceros
Rhizosolenia

St. George's Bank.

No. 1619 L. Near Great Point Light.
Denticella dubraei Kuntze

No. 1620 Y. Near Great Pt. Light
Denticella dubia or Nantucket-

No. 1621 Z. Near New So. Shoal, off Nantucket
Denticella dubia Bailey - see figure in Report
{ on Soundings

No. 1622 A' Soundings off Nantucket -
Denticella dubia 16 1/4 Fath.

No. 1623 D' Infusoria. Excavation
for building, corner of Wall & Water Sts. N.Y.

No. 1624 L' Same as above

No. 1625 D'
Silicified Polythalamia -

No. 1626 E' 110 ft. under Charleston S.E.

No. 1627 F' 135 ft. below Charleston S.E.

No. 1628 G' Fort Wichita
Polythalamia in blue slaty clay.

No. 1629

H'

Fort Wachuta

No. 1630

I'

Derry, Vt.

Fossil Infusoria, partly dissolved in
Hydro^e acid.

No. 1631

J'

Derry Vt.

Same as above

No. 1632 K' : Wrentham, Mass.
Fossil Infusoria.

No. 1633 L' Bermuda
Chaetoceros diploneis side view.
near profa Costmodiscus

No. 1634 M' Bermuda

No. 1635 N' Bermuda.
Polycistinae

No. 1636 O' Bermuda
serigated-

No. 1637 P' Locality unknown -
Stauroneis partly dissolved in Hydrofluoric^{acid}
Navicula

No. 1638

L'

Locality unknown.

No. 1639

Q'

So. Carolina

Polythalamia

No. 1640

S'

Mud of Kemble's Marsh -

Polythalamia -

No. 1641 J' Lerant Mund.
Denticella tridens.

No. 1642 - W' Lerant Mund.

No. 1643 Y' Lerant Mund.

No. 1644 . W' Lerant Mund

No. 1645 X' Boston, Lincolnshire, Eng-
Fossil Lagenas +
" Polythalamia

No. 1646 Y' same as above

No. 1647 Z' Eng-
Fossil animalcules contained in a
substance called "floating brick".

No. 1648 A'' Thames Gravelend

No. 1649 S'' Wye, Maryland
Polycistina

No. 1650 L" Wye, Maryland.

No. 1651 D" Wye, Maryland

No. 1652 E" Wye, Maryland
Fossil Polycistinae

No. 1653 F" Wye, Maryland.

No. 1654 G" Calvert Co. Maryland.

No. 1655 H" Petersburg.

No. 1656 J" Petersburg, Va

No. 1657 J" Petersburg - 30 feet

No. 1658 K" Petersburg, Va
Enkodicent germanicus.

No. 1659 L" Petersburg, Va.
Eupodiscus guatemaricus Ehr.
Denticella

No. 1660 M" Petersburg, Va.
Lycopoceras rhombus.

No. 1661 N" Petersburg, Va.
Eupodiscus (Near North River.)

No. 1662 O" Petersburg Va
Zygoceros rhombus
Eupodiscus gymaria
& Rogersii

No. 1663 P" Richmond Va
34 1/8 Dilylun (by candle light)
80 1/2
34 3/4
72 N. W. of Cove. oc. iris.

No. 1664 " Richmond Va

$53\frac{1}{4}$
 $61\frac{7}{8}$ d. *Goniothecium obtusum*?
in the ring of a *Coccomodiscus*
 $48\frac{1}{2}$
 $60\frac{3}{4}$ d. *Goniothecium adantella* Ehr.
4 specimens - side views.
" *adantella* " "
 47
 65 d. "
 $67\frac{1}{2}$ *Goniothecium Rogersii* Ehr.
in the ring of a *Coccomodiscus*
 $43\frac{1}{8}$ b *Goniothecium obtusum*?
 59
 $63\frac{1}{4}$ d. "
 58 d. " 2 specimens.
 $72\frac{1}{8}$

$65\frac{7}{8}$
 24 a
 $45\frac{1}{2}$
 $28\frac{1}{2}$ a *Hiridulphia bidentata* Ehr.
 60
 $72\frac{3}{4}$ d. *Graspedodiscus Coccomodiscus* Ehr.

No. 1665 R" Richmond, Va.
49. *Triceratium*, curiously distorted, ^{thick end!}
69 ^{3/4}

No. 1666 S" Richmond Va.
Chaetoceros recurvum

No. 1667 T" Richmond Va.

No. 1668 U"
Chalcidæ

Richmond Va.
a fragment.

No. 1669 V" Richmond Va.
Infusoria - Behind Monumental Church
Polythalamia - upper part of stratum.

No. 1670 W"

Richmond Va.
3^d Ravine behind Medical College.

No. 1671 Z" Richmond Va.

No. 1672 Y" Richmond Va.
Chaetoceras

No. 1673 Z" Richmond Va.
Upper part of stratum.

No. 1674 A. A.

Richmond Va.

No. 1675- B. B.

Richmond

No. 1676 C. C.

Richmond Va.

Tricratium amblyceros.

No. 1677 D. D. Richmond, Va.
Disc from Infusoria -
Coscinodiscus gigas Ehr.

No. 1678 E. E. (probably Richmond)
58 ³/₄ *Loose. oc. viridis* 2 specimens.
70 ¹/₂ " "
52 ¹/₂ "
70 "
44 *Navicula Sigma*
74 "
40 "
67 "
Craspedodiscus

No. 1679 J. F. Piscataway, Ind.

No. 1680 G. G. Piscataway, Ind.

No. 1681 H. H. Piscataway Ind.
Asterobampa Marylandica

No. 1682 I. I.

Petersburg Va.

No. 1683 J. J.

Pamunkey River. Va.
(Miocene)

No. 1684 K. L.

Hollis Cliffs. Va.

No. 1685 L. L. Crown's Mills Va.

No. 1686 M. M. Meherin River Va.

No. 1687 N. N. Meherin River Va.

No. 1688 O. O. Stratford Cliffs Va.

No. 1689- P. P. Stratford Cliffs Va.

No. 1690- Q. Q. Rappahannock Cliffs Va.

No. 1691

R. R.

Rappahannock Cliffs

No. 1692 - S. S.

Rappahannock Cliffs

D. Tilton

No. 1693. T. T.

Rappahannock Cliffs.

No. 1694 U. U. Bristol Mine - Cliffs
in Rappahannock Va.

Fremont Series

No. 1695 Slide A.

Oregon.

Fossil Infusoria

No. 1696 B.

Oregon

Fossil Infusoria

No. 1697 C.

Oregon

No. 1698 D.
Fossil Infusoria

Oregon

No. 1699 E.
Fossil Infusoria

Oregon

No. 1700 F.

"

No. 1701 Slide G.
Fossil Infusoria

Oregon

No. 1702 - No.
Polythalamia -

"

Marine-Diatoms

No. 1703 Slide 1 a. St. George's Bank
From Stomach of *Botryodactyla grandis*.

No. 1704 1 b. Same as above

No. 1705 1 c. St. George's Bank
Chaetoceros cc - from Stomach of *Botryodactyla*

No. 1706 Slide 1 d. St. George's Park
From stomach of *Bolynodactyla grandis*.

No. 1707 1 e. St. George's Park.
Same as above

No. 1708 2 a Fort Hamilton, N. Y.
Melosira

No. 1709 3a
Navicula Sigma?

Rockaway, N.Y.

No. 1710 4a
Pleurosigma formosum Smith
Hyalodiscus

Stonington, Conn.

No. 1711 5a

Edgartown Harbor.
Channel midway between ^{outer buoys} inner

Amphitetras

No. 1412 5b. Edgartown Harbor Mass.
Mastotiscus punctatus Binley - Middlebury
Amphilebas

No. 1413 5c. Edgartown Harbor.

No. 1414 5d. Edgartown Harbor -
Eupodiscus -

No. 1415

5e.

Edgerton Harbor, Mass.

No. 1416

5f

Edgerton Harbor, Mass.

No. 1417 - 5g.

Edgerton Harbor, Mass.

Mustelidiscus punctatus Baird -

Ceratulus turgidus

No. 1418 5h.
Entosolenia

Edgartown, Mass.

No. 1419 5i
Eupodiscus

Edgartown Harbor, Mass.

No. 1420 6a
Mustodiscus

Outer buoy off Cape Poge
(Mush's Vineyard)

No. 1721 6b. Cape Poge-
Mastodiscus

No. 1722 6c. Cape Poge-

No. 1723 6d. Cape Poge-

No. 1424 6e Cape Page.

No. 1425 6f Cape Page
Mastodonicus punctatus.

No. 1426 6g Outer bay Cape Page.
Eupodiscus
Triceratium.

No. 1727- 6h. Cape Page.

No. 1728 6i. Outer bay Cape Page.

No. 1729- 6j. Outer bay off Cape Page.

No. 1730. 6 h. Cape Page.

No. 1731. 6 h. Outer buoy. Cape Page.
Eupodiscus.

No. 1732. 6 m. Outer buoy off Cape Page.

No. 1733. 6. m. Outer brood, Cape Page.
Eupodiscus
Tricestatorus javan.

No. 1734. 6. o. Outer brood, Cape Page.
Ceratanthus virgatus Ehr.

No. 1735. 6. p. Cape Page.

No. 1436. 69. Cape Page.

No. 1437. 7a Rio Janeiro.

No. 1438. 7b. Off Flores. Rio de Janeiro.

No. 1739. 8a Monte Vides.
Spicules and a few Diatoms - in sand.

No. 1740. 9a Arena Vista, Mexico

No. 1741. 10a East Indies -
Nuclear sand.

No. 1742 11 a. Assistance Bay,
Cornwallis Island.

No. 1743 12 a. Oregon

No. 1744 13 a. Gulf Stream
Grammostomum perelegans Bailey

No. 1745- 14 a. St. Julien S. America

No. 1746- 15 a Boston Harbor.
Podocystis Americana. Dr. Durkee

No. 1747- 16 a Marsh near Laundry.

No. 1748 17 a
Marine diatoms

Loc. unknown

No. 1749- 17 b
Marine Diatoms

Locality unknown.

No. 1750 18 a

Loc. unknown.

$148 \frac{1}{2}$
 $73 \frac{3}{4}$
 $45 \frac{1}{4}$
 $30 \frac{1}{4}$
 $54 \frac{1}{9}$
 $77 \frac{3}{4}$

Nitzschia fig. 37 in ring-
" another species
top view of a Polysmyxos.

No. 1751 18 b. Locality unknown.

$61\frac{1}{2}$	<i>Eupodisens</i>	
$67\frac{1}{4}$	<i>Trinularia magna</i> B.	
61		
69		
54^+	<i>Amphitetras cuspidata</i> B.	
$61\frac{3}{4}$		
$52\frac{1}{2}$	<i>Nitzschia granulata</i> B.	
$11\frac{1}{4}$		
50	" "	other valves -
$11\frac{1}{2}$		
$49\frac{1}{2}$	<i>Ditylum</i>	
$85\frac{1}{3}$		

No. 1452. Slide St. Chalk England.

No. 1453 G. Chalk.

No. 1454 C. Chalk.

No. 1755 D. Chalk.

57 1/4 Nodosaria anglica? a fragment.

63 1/8

50 3/4

81 1/2

46 1/2

70 1/8

44 1/4

68 1/4

44 3/4

23 1/4

Spicule ?

Nodosaria monile obscure.

Spiroplecta Rosula?

Textilaria dilatata, broken but good.

No. 1756 E. Chalk. Dover, England.

No. 1757 G. Chalk, Dover, England
writing Chalk used in Barracks, heated
first with Sulphate of Soda, then with CO_2

- $33\frac{3}{4}$ Grammostomum? large one
 $77\frac{1}{4}$ " *Pigenerima acanthophora* N. W. of last
See Mik. Pl. 28 fig. 22
 $111\frac{3}{4}$ Grammostomum Scabrum Ehr.
 $74\frac{3}{4}$ See Mik. l.c. fig 14
 $70\frac{1}{2}$ *Texituria dilatata* Ehr.
 65 See Mik. l.c. fig 7
its vertex at a yellow spot, on air bubble in
} last cell but one
 65 *Plumalina ophthalmata* l.c. fig 43
 $69\frac{7}{8}$
 $63\frac{1}{4}$ *Texituria dilatata* showing orifice
 $2x\frac{1}{4}$

"This catalogue cannot belong to this slide
C.S."

No. 1758 G. Chalk.

$52\frac{1}{2}$?
 76

No. 1459 H. Chalk from Dover, Sussex,
Eng.

No. 1460 J. Chalk from the interior of
a flint, }
Silicified Polyhalumia-

No. 1761 J. Chalk Mendon, France

No. 1762 K. Chalk Mendon, France

No. 1763 L. Chalk Marl Ehrenberg -
Oran, Africa.

No. 1764 - M. Chalk Marl Ehrenberg -
Oran, Africa

No. 1781 Slide No. Smithsonian Conts.
 Greenport, N.Y.

41	Podocystis -	fig. 37-
35 ² / ₃	Smirella	C.S.
140		
30		
49 ²	Rhabdonema	"
78		

No. 1782 S. St. George's Bank
 From Stomach of Bryodactyla grandis
 acted on by acid. fig. 21. 22.

60 ⁺	Chaetoceros boreale	
64 ¹ / ₃	"	
50 ¹ / ₄	"	
76 ² / ₃	"	
49 ³ / ₄	"	
12 ¹ / ₂	"	
41 ⁷ / ₈	"	Seen obliquely
41	"	
44	"	2 specimens
43 ⁺		

No. 1783 Slide No. Hudson River.
 $\frac{54\frac{1}{2}}{72\frac{1}{2}}$ *Anolis prinosus* B.

No 1784 D. Luder Key, Florida
Chimacospharina fig. 9010.

No. 1785 E. Halifax -

$\frac{68.4}{69.78}$ *Zygoceros radiatus* B. oblique view.
 $\frac{65.1/2}{70+}$ *Gyrosigma* faint, near a black spot.
 $\frac{64}{74.1/4}$ *Diploneis*
 $\frac{63}{72.1/4}$ *Campylodiscus*
 $\frac{64}{75}$ *Hyalodiscus*. N.E. of the *Diploneis* - }
Small one

No. 1786. F. Gallist Point - Tampa Bay,

$\frac{50.78}{61.1/8}$ *Triceratium* (fig. 25) Florida -
 $\frac{56.1/4}{28+}$ *Auliscus pruinosus* B. oblique view
 $\frac{52.1/2}{70}$ *Eupoeciliscus radiatus* B.
 $\frac{43.7/8}{30}$ *Auliscus pruinosus* B. top view

- C.S. -

$\frac{120}{75}$ *Auliscus pruinosus*, side view, like
 the fig. in Smithsonian Cont.
 $\frac{45}{74}$ Chamber shell very fine -

No. 1487 G. Gallat Pt. Florida -
 Washings of Sponge Dr. Vanuxdale

$21 \frac{3}{8}$ Diploneis
 $70 \frac{1}{4}$
 $140 \frac{1}{4}$ Stuliscus caelatus G.
 $78 +$
 $55 \frac{1}{2}$
 $64 \frac{1}{8}$

No. 1488 H. Gallat Pt. Florida

60 *Stomatodiscus* *frumescens* G. 2 valves
 $39 \frac{7}{8}$ *Triceratium* broken
 59
 $75 \frac{1}{8}$

No. 1789 J. Duval's Creek, Florida
Campylodiscus angus B.
Campylodiscus clypeus -

No. 1790 - J. fig. 23-24.
Synedra undulata Bailey -

No. 1491 K. Petersburg, Va

Eupodiscus germanicus

Zygoceros shombus

No. 1492 L. Richmond, Va

Chaetoceros recurvum fig 18030-

Zygoceros side view

No. 1793. - M. Niagara Falls.
Stephanodiscus Niagarae &

No. 1794. - N. Halifax
65 ³/₄ *Navicula granulata* B. fig. 11 =
22 -
56 *Amphiprasa*
68 ¹/₂
51 ³/₄ *Navicula* sigmoid -
63 ³/₄

No. 1495. D. Halifax
 52 Hyalodiscus Cohen.
 67
 4 1/2 "
 31
 49 Zygoceros pudicatus B. fig. 29
 67
 50/8 Stenoptera oblonga B. 3 specimens.
 37 1/2

51 C.S. Campylodiscus? very remarkable.
 66

No. 1496. D. H. Fraconbe fig. 20.
 Amphiletes antediluvianum
 Grammatopora africana?

No. 1797 S. 10 vt

Hudson River

No. 1798- S.

Hudson River.

No. 1799- Co.

Hudson River, West Pt.

No. 1800 - D. near West Point on Hudson River
Licinophora
Bocconema
+ other parasitic Infusoria.

No. 1801. E. Hudson River, N.Y.

No. 1802, F. Hudson River near West Pt.

No. 1803 G. Henderson River near W. St.
Limnophora 2

No. 1804 - H. Henderson River

No. 1805 - I. Henderson River

No. 1806. J. Hudson River.
Kocconema
Lacillaria paradoxa

No. 1807. K. Hudson River
U.S. the longest filament.

No. 1808. L. Hudson River
Licinophora

No. 1809. M. Henderson River

No. 1810. N. Henderson River

No. 1811. O. Henderson River

No. 1812. P. Hondson Kiser

Desmidiaceae.

No. 1813 Slide A Westmoreland
England.

No. 1814 - B. Westmoreland, Eng.

No. 1815. C. N. Wales -
Tetramorpha Brebesonii

No. 1816. D. Wales.
Enastrum affine

No. 1817. E. N. Wales.
Enastrum peltata.

No. 1818. E.
Enastrum gemmatum.

No. 1819. G. No locality-

No. 1820. H. Wales.
Enastrum fella-

No. 1821. I. Coast of Yorkshire.
Truncatulina tuberculata-

No. 1822. J. Dolgelly, Wales.
Xanthidium fucatum

No. 1823. L. West Point, N.Y.
(*Syndaridaceae*)

No. 1824 - M. West Point, N.Y.
Closteria

No. 1825- N. England.
Glucanum coccineum -

No. 1826. O. Wales.
Desmidiium cylindricum -

P. Q. R. missing -

No. 1827. S.
Closterium digitum -

No. 1828. T. Wales.
Closterium -

No. 1829. U. Wales.
Staurastrum incus

No. 1830. V.

Staurastrum - needs high power.

No. 1831. W. N. Wales.

Chlosterium turgidum -

No. 1832. X.

Wales.

Desmidiaceae -

No. 1833 Y. England.
Desmidiaceae

No. 1834 Z. Wales.
Desmidiaceae.

From Florida -

No. 1859- Slide 1a. St. Augustine Florida
Hyalodiscus (Bridge)

No. 1860- 1b. St. Sebastian River
near San Augustine.

Cosemodiscus

Eapodiscus radiatus

Tetragramma Americana. Side or end view.

Maatodiscus.

No. 1861- 1c. Bridge at San Augustine.

No. 1862. 1 d. Bridge over San Augustine.
Hyalodiscus.

No. 1863. 1 c. St. Astasia Island
near San Augustine.
Amphora
Amphoprota &c

No. 1864. 1 f. St. Augustine.
Liberatum faves Ehu.

No. 1865- 1 g. Bridge near St Augustine.
(not levigated.)

No. 1866- 1 h. " " "

No. 1867- 1 i. Near St. Augustine Fla.
Tetragramma Americana Bailey-

No. 1868. 1 j. Bridge - St. Augustine

No. 1869. 1 k. Same as above.
Hyalodis'ens x

No. 1870. 1 l. Bridge at San Augustine
Onustodis'ens.

No. 1871. 1 m. St. Sebastian River -
near San Augustine -
Triceratium farns Ehr.
Denticella?

No. 1872. 2 a. Dmval's Creek Florida.

No. 1873 2 b. Dmval's Creek, Fla

No. 1844 - 2 c. Duvall's Creek, Florida
 54 ³/₄ *Leptisma musica* Ehr.
 61 ⁷/₁₄ " " 2 spec. end views.
 54 - " " "
 35 ¹/₂ - " "
 57 ¹/₂ " "
 52 ⁷/₈ *Stauroneis maculata* B
 59 ⁷/₈ " " with *L. musica*
 32 ¹/₈ " "
 42 ¹/₃ " "
 39 ¹/₈ " "

No. 1845 - 2 d. Duvall's Cr. Florida -
Campylodiscus clypeus -

No. 1846 - 2 e. Duvall's Creek, Florida -
 Enterprise -
Leptisma musica
Stauroneis punctata

No. 1877. 2 f. Duval's Co. Enterprise
Fla.

No. 1878. 2 g. Duval's Co. Florida -

No. 1879 3 a. Coast of Florida
Recent Polythalamia -

No. 1880 - 3b. Garden Key Florida
Rhabdonema washed from algae -
Grammatophora -

No. 1881. 3c. Tortugas "

Limacosphaeria.

No. 1882. 3d. Garden Key Florida
Limacosphaeria ramosa Bail.

No. 1883- 3e. Inland passage 50 miles
from Jacksonville.

No. 1884- 3f. Inland passage 60 miles
from Jacksonville

No. 1885- 4a. Gallathea Pt. Tampa Bay.
Mastroriscus punctatus B.

No. 1886- 4 b. Tampa-
Eupodiscus radiatus B.

No. 1887- 4 c. Ballast Point, Tampa Bay.
Mastodiscus pruvieri B.

No. 1888- 4 d. Tampa Bay-
Mastodiscus pruvieri Bail.

No. 1889. 4 e. Bullast Point, Tampa.
Mastodiscus.
Eupodiscus.

No. 1890. 4 f. " " "

No. 1891. 4 g. " " "

No. 1892. 4 h. Tampa Bay, Florida
Mastodiscus frumosus C.

No. 1893. 4 i. Ballast Point, Tampa Bay.
Grammatopora re

No. 1894. 4 j. Ballast Point Tampa Bay.
Fragment of a large *Mastodiscus frumosus*.

No. 1895. 4 ss. Ballast Point Tampa.

Actinoptychus?

Grammatopora

Mastodiscus frumicosus

Eufodiscus radiatus &c

No. 1896. 4 l. Ballast Point, Tampa.

No. 1897. 4 m.

Tampa.

No. 1898. 4. 22.
Cimphiprosa.

Tampa.

No. 1899. 4. 0
Infusorial Stratum.

Tampa.

No. 1900. 4. 6.
Infusorial Stratum.

Tampa.

No. 1901. 4 g. Ballast Pt. Tampa Bay.

$45\frac{1}{4}$ *Styliscus frumosus* B.
 $66\frac{7}{8}$
 48 *Empodiscus radiatus* B.
 $60\frac{2}{3}$ *Actinopterychus* 16 rays.
 47
 $62\frac{1}{2}$ *Tryblionella pentellum* Sm.
 $54\frac{1}{2}$
 $72\frac{3}{4}$ = *Suirella circumscissa* B.

No. 1902. 4 v. Ballast Pt. Tampa Bay, Fla.

Prunellaria
Actinopterychus 12 rays.

No. 1903. 4 s. Ballast Pt. Tampa Bay.

Triceratium setigerum B.

No. 1904 - 4. k. Gullast Pt. Tamba.
Mastodiscus
Eupodiscus.

No. 1905 - 4. w. Gullast Pt. Tamba Bay -
side view of *Mastodiscus pruinosus*.

No. 1906 - 4. v. Gullast Pt. Tamba Bay -
Trocerarium setigerum B.

No. 1907- 4 w. near Tampa, Fla.
Infusorial Stratum -

No. 1908- 5 a- Picolata, Florida.
Diatoms -

No. 1909- 5 b. Little Hillsborough River "

No. 1910- 5c. Volusia, Florida.
Terpsinoë musica Ehr.

No. 1911 5d. Anastasia Is^d Florida.
Amphora
Amphibrora.

No. 1912- 5c. Cape (Paine?)
Mastodons inaequalis- side view.

No. 1913. 5f. Palatka, Florida -
Diatoma Ehrenbergii

No. 1914. 5g. Demaree Creek Fla -
Xanthyloides

No. 1915. 6a. Off. St. Simons Is. Georgia
Terp. sinuata
Triceratium fons.

No. 1916- 6b. Hopeton, near the Altamaha -
Tetragramma americana, (side view)

No. 1917- 6c. Savannah, Ga.
Mound of Rice field ditches

No. 1918 6d.
Rice fields 10 miles above Savannah, Ga.

No. 1919- 6e. Rice fields, 10 miles above
Savannah, Georgia

No. 1920- 6f. Rice fields, 10 miles above
Savannah, Ga.

No. 1921- 6g. Rice fields, 10 miles
above Savannah, Ga.

No. 1922. Ch. Rice fields 10 miles above
Savannah, Ga.

No. 1923. Ci. Same as above.
(not ligated.)

No. 1924. Cj. Fort Jackson, near Savannah.

No. 1925- 6 k. Rice Fields.
Ground 2^d irrigation Col. McAllister.

No. 1926- 7a. Sullivans Is^d So. Ca.
Grammatophora -

No. 1927- 7b. Grahamsville So. Ca.
Periclunium -

No. 1928. 8a Rice fields 2 ft. below ^(surface)
Wilmington N.C.

No. 1929. 9a Mud. Charleston, S.C.

No. 1930. 9b On the Ashley River, 6 miles
from Charleston, S.C.

No. 1931- 9c.
Amphitetras-

Charleston, S.C.

No. 1932- 9d-

Charleston, S.C.

No. 1933- 9e.

Charleston, S. Ca-

No. 1934- 9 f. Charleston, S. C.

No. 1935- 9 g. Charleston, S. C.

No. 1936- 10 a. Centreport, Alabama.

No. 1937. 10^b Centreport, Ala.

No. 1938. 10^c Centreport, Ala.

No. 1939. 10^d Centreport, Ala.

No. 1940. 10^a. Centrepont, Alabama.

No. 1941. 11^a. New Orleans, La.

No. 1942. 12^a. New Braunfels, Texas.
Serpentes musica Ehr.

No. 1943.

13^a

Missouri River
near St. Louis.

No. 1944.

14^a

Jackson, Miss.

No. 1945.

15^a

Artesian Well 48 to 53 ft.
Fort Monroe, Va.

No. 1946. 15^b Mud of James River
City Point, Va.

No. 1947. 15^c Roanoke River, Va.

No. 1948. 15^d Williamsburg, Va.

No. 1949. 16^a Old Point Comfort Va.
Surface vol.

No. 1950. 16^b Old Point Comfort.
53 to 56

No. 1951. 16^c Old Point Comfort.
48 to 53

No. 1952. 16d Old Point Comfort, Va
Polychalumia

No. 1953. 16e Old Point Comfort.
Depth 98 to 105.

No. 1954. 16f Old Point Comfort.
56 to 68 feet.

No. 1955. 16g. Old Point Comfort.
84 to ~~89~~ ft.

No. 1956. 16h. Old Point Comfort.
53 to 56 ft.

No. 1957. 16i. Old Point Comfort.
84 to 89 ft.

No. 1958. 17^a Traverse Bay, Lake Michigan

No. 1959. 17^b " " "

No. 1960. 17^c " " "

No. 1961. 17 d. Traverse Bay, Lake Michigan
Recent Infusoria.

No. 1962. 17 e. Lake Elizabeth
Oakland Co. Michigan.

No. 1963. 17 f. Oakland, Michigan.

No. 1964. 17 g. Oakland Co. Michigan -

No. 1965. 17 h. " " "
Recent Infusoria

No. 1966. 17 i. " Michigan

No. 1967. 17 j. Mackinaw.

No. 1968. 17 k. Oakland Co. Mich.

No. 1969. 18 a. Morris Co. New Jersey.

No. 1970. 18b. Drapleton N. Jersey.
Striella very minute.

No. 1971. 18c. From mud of Delaware River
at Burlington N. J.
Striella se

No. 1972. 19a. Cleveland, Ohio.

No. 1943. 19 b. Pis at Cleveland, Ohio.
Gloconema paradoxa

No. 1944. 20^a Rockaway N. Y.
Biddulphia pulchella

No. 1945. 20 b. Rockaway N. Y.
Navicula Baltica
Maatoclisus radiatus.

No. 1976. 20 c. Rockaway.
Triceratium fons Ehr.

No. 1977. 20 d. Rockaway
N. Baltica
N. Sigma?
Mastodiscus radiatus.

No. 1978. 20 e. Rockaway.
Amphiproa carinata
Navicula Baltica

No. 1979. 20 f. Rockaway.
Amphiprora.
Nastodiscus.

No. 1980. 20 g. Rockaway.
Amphiprora.

No. 1981. 20 h. Rockaway.

No. 1982. 21^a Hudson River, N.Y.

No. 1983. 21^b " " "

No. 1984. 21^c " " "

No. 1985. 21 d Hudson River, N.Y.
Nastodiscus radiatus B.

No. 1986. 21 e. From mud of Hudson River

No. 1987. 21 f. Hudson River N.Y.
Triceratium foveis Ehr.

No. 1988. 21 g. Hudson River, N.Y.

No. 1989. 21 h. " " "

No. 1990. 21 i. " " "

No. 1991. 21 j. Hudson River, N.Y.

No. 1992. 21 k. Pond of New York Dock.
Ceratambus longidus.

No. 1993. 21 l. Pond Hudson River
Hyde Park.

No. 1994. 21 m. Hudson River, N.Y.
Navicula
Geratulus turgidus
Spirilla
Triceratium fons-

No. 1995. 21 m. Hudson River N.Y.
Amphiproa atata? Ehr.

No. 1996. 22^a Greenport, N.Y.

No. 1997. 22 b. Greenport, N.Y.
Peralomeis

No. 1998. 22 c. Greenport, N.Y.
Grammatopora

No. 1999. 22 d. Greenport, N.Y.
Podocystis.

No. 2000. 22 e. Greenport, N. J.
Fragments of Amphipoda

No. 2001. 22 f. " "

No. 2002. 22 g. Salt Marsh "

No. 2003. 22 h. Greenpat. L. Island
Varicella, with delicate diagonals N.Y.
+ cross lines.

No. 2004. 22 i. " "
Varicella Same as above

No. 2005. 22 j. " "
Grammatophora subtilissima-

No. 2005/2 22 k. Greenpat. N.Y.

No. 2006. 23a West Point, N.Y.
Stauroneis Baileyi
Famthidia
Navicula iridis.

No. 2007. 23b. Catskill Pond. N.Y.
Glosterium nodosum.

No. 2008. 23c. Round Pond, near West Pt.
Recent Infusoria

No. 2009. 23 d. Mill Pond, West Point.
Stauroneis - side view.

No. 2010. 23 d. Mill Pond, West Pt.

No. 2011. 23 f. Mill Pond, near West Pt.
Surirella splendida Ehr.
Bocconema cymbiforme Ehr.
Diffugia

No. 2012. 23 g. West Point, N.Y.
Meridium circulare.

No. 2013. 23 h. West Point, N.Y.
Gallionella

No. 2014. 23 i West Point, N.Y.
Meridium circulare

No. 2015. 23j. Round Pond, near West Pt.
Xanthidia

No. 2016. 23k. West Point.
Island of Hudson River,
Campylodiscus Argus

No. 2017. 23l. West Point.

No. 2018. 23 m.
Meridium circulare.

West Point. Apr 11. 1849.

No. 2019. 23 m. West Point, N.Y.
Himantidium Stens Ehu.

No. 2020. 230 West Point, N.Y.
Himantidium Stens Ehu. } *puncta*
et
Tabellaria flocculosa Ehu }

No. 2021. 23 p. West Point, N.Y.
Triceratium fava Ehr.

No. 2022. 24^a Mandstone, Ct.

No. 2023. 24 b. New Durham D.C.
Derry D.C. } one slide

No. 2024. 25^a New Tarrytown N.Y.
Westchester Co.

No. 2025. 25^b (Brooklyn) N.Y.

No. 2026. 26^a Derry, N.H.

No. 2027. 27^a Cherryfield, Maine.

No. 2028. 27^b Blue Hill Pond, Me.

No. 2029. 28^a Boston Harbor, Mass.
Fragillaria

No. 2030. 28 b Boston Harbor Mass.

No. 2031. 28 c. Boston, Mass.

No. 2032. 28 d. Boston, Mass.

No. 2033. 28 v. Boston Harbor, Mass.

No. 2034. 28 f. Massachusetts Bay.
Isthmia obliquata

No. 2035. 28 g. Wendell, Mass.
Dr. Deane.

No. 2036. 28 h. Wrentham, Mass.

Silicenus inflexus acted upon by Hydrofluoric ^(acid)

No. 2037. 28 i. Salem, Mass.

No. 2038. 29 a Stoughton, Conn.

Pleurosigma formosa

No. 2039. 29^b Stoughton, Conn.
Plenrosigma.

No. 2040. 29^c Stoughton, Conn.
Navicula Baltica

No. 2041. 29^d Stoughton, Conn.

No. 2042. 29 e. Strivington, Linn.
Grammatophora.

No. 2043. 30^a Providence R. I.
Grammatophora

No. 2044. 30^b Providence R. I.
Schmuckes.

No. 2045. 30c. Bristol Ferry, R.I.
Biddulphia pulchella

No. 2046. 30c. Bristol Ferry, R.I.
Biddulphia pulchella

No. 2047. 31st Locality unknown
Arachnoidiscus japonicus with the regards of
a S. Johnson, 1853

No. 2048. 31 b. Locality unknown.
Arachnoidiscus.

No. 2049. 31 c. Locality unknown
Arachnoidiscus Japonicus.

No. 2050. 32 a. Fort Jackson,
Md.

Foreign Diatoms

No. 2060. Slide 1^a River Humber, Eng.
adjoining salt-water Ditches.

No. 2061. 1^b. Humber, Eng.
Recent Infusoria.

No. 2062. 1^c. Avon River near Bristol
Sirella. Eng.

No. 2063. 1 d. England.
Gomphonema ocellatum.
Meridion

No. 2064. 1 e. Fleetwood, England.
Gomphonema paradoxa.

No. 2065. 1 f. Ilfracombe, England.
Isthmia inervis
Biddulphia

No. 2066. 1 g. Ilfracombe, Eng.
Biddulphia pulchella
Amphitetras

No. 2067. 1 lb. Ilfracombe, Eng.
Isthmia enervis.

No. 2068. 1 i. Ilfracombe, Eng.
Isthmia enervis { boiled in
Biddulphia pulchella { Nitric acid

No. 2069. 1 j. New London, Eng. }
Xanthidium ramosum in fruit }

No. 2070. 1 m. Anglesea, Wales.
Achnanthes subsessilis.

No. 2071. 1 m. North Wales.
Gomphonema geminatum

No. 2072. 10. North Wales.
Fragillaria pectinatis.

No. 2073. 1p. Dolgelly, Wales.
Isthmia -

No. 2074. 2^a Nova Scotia.

No. 2075. 2 b. Nova Scotia.

No. 2076. 2 c. Eulton, Co. of Colchester
Nova Scotia.

No. 2077. 2 d. Halifax
washed from an Agarum, not cleaned.

No. 2078. 2 e. Halifax
Stenoptera.

No. 2079. 2 f. Halifax
Diploneis Entomus Ehr.

No. 2080. 2 g. Halifax
Spine of ?

No. 2081. 2 h. From Cuba.
Stauroneis Guileyi
Stauroneis difficult

No. 2082. 2 v. Halifax, N.S.
Fr of a large Hyalodiscus
Hyalodiscus laevis Small
Grammatophora stricta
" serpentina? (lect.)

No. 2083. 3 a Loc. unknown
Mastogloia

No. 2084. 3b. Locality unknown.
Amphipleura-

No. 2085. 3c. " "
Pleurosigma angulatum

No. 2086. 3d. " "
Pleurosigma fasciata

No. 2087. 3e Locality unknown.
From Fossils on Oyster.
Navicula Baltica
" *angulata.*
" *Sigma*
Mastodons.

No. 2088. 3f " "
Triceratium setigerum.

No. 2089. 3g. " "
Triceratium fovea Ehr.

No. 2090. 3 h. Locality unknown.

No. 2091. 3 i. " "
Bocconema
Bocconis.

No. 2092. 3 j. " "
Fresh water Diatoms.

No. 2093. Fk. Locality unknown.
Striatella arcuata.

No. 2094. Fl. " "

No. 2095. Fm. " "
Arachnoidiscus - on *Thamnophora*

No. 2096. 3 m. Loc. unknown.
"Metallic lustre" from a Dagnerech, list.

No. 2097. 3 o. Loc. unknown.
Eutopyla - Found on Thamnophora.
Arachnoidiscus Japonicus

No. 2098. 3 p. " "
Sclerotella arcuata in Gracilaria erecta.

No. 2099. 3 p. Locality unknown.
Acted upon by Hydrochloric acid
Isthmia.

No. 2100. 3 p. " "
Biddulphia fulchella

No. 2101. 3 p. " "
Dialomas.

No. 2102. H. w. Mud from St. Helena

No. 2103. H. b. " " "

No. 2104. H. c. " " "
L. Lagomae

No. 2105. 4d. Mud from St. Helena,
Lagena

No. 2106. 5a. Jamaica, West Indies
Denticella tridens Ehr.

No. 2107. 5b. Port. Royal, Jamaica W.I.
Serpisno musica side & end view.

No. 2108. 5c. Port. Royal, Jamaica H.
Serpilina musica

No. 2109 6c. Oster Hauber Rio de Janeiro.

No. 2110 6c. Rio Janeiro -
Alimacosphæria - (thin glass.)

No. 2111.

J. w.

Malta.

No. 2112.

J. b.

Italy-

Crystal Palace N. Y.

No. 2113.

J. c.

Adriatic.

Grammatophora-

No. 2114. 8a. S. Pond from Bombay.

No. 2115 9a Cape of Good Hope.

No. 2116. 10a Saltillo, Mexico.

No 2117. 11 a. Tripoli Bohemia

No. 2118. 11 b. Franzenbad, Bohemia.
Panphylodiscus clypeus Ehr.

No. 2118 $\frac{1}{2}$ 11 c Franzenbad.
Kiesel Stein

No. 2119. 12 a. Oberhöhe im Lüneburg-
(Bergmeil.) 41 ft. Stück

No. 2120. 12 b. Berlin
Polirschiefer.

No. 2121. 12 c. Berlin.
Artificial Kieselgnhr.

No. 2122. 12 d. Hungary.
Polir-schiefer.

No. 2123. 12 e. Berlin - Fossil.

No. 2124. 12 f. Berlin
Tripoli.

No. 2125. 13 a. Baltic, Copenhagen -
Campylodiscus Schenck. Ehr.

No. 2126. 14 a. Near Philadelphia
Alia Minor.

No. 2127. 14 b. Smyrna.
Infusoria - on *Ladium flabelliforme*.

No. 2128 15 a. Singapore.

No. 2129. 16 a. Sooloo Sea.

No. 2130. 16 b. Sooloo Sea.

No. 2131. 17 a. Cape of Good Hope.
Ex. Expt.

No. 2132. 18 a.

Infusoria from Soil from Cook's Straits
elevated 100 feet.

No. 2133

19 a

Madeira

No. 2134.

19 b.

Madeira

No. 2135. 19c Madeira?

No. 2136. St. East Indies.

$\frac{60}{2}$

Coscinodiscus.

$\frac{83}{8}$

Cyclotella Kützingeriana

$\frac{56}{80/4}$

$\frac{54}{33}$

Coscinodiscus broken.

$\frac{65}{64 3/4}$

Diploneis.

No. 2137. P. East Indies.

- 45 1/2 Small Campylodiscus N. of a long spindle
72 1/2
44 5/14 " Surirella
67 1/2
42 Actinocyclus (of no particular interest.)
87
41 Cyclotella Kützingeriana? + edge view of
71 1/2 Gullionella sulcata.
140 Cyclotella Kützingeriana?
74 1/4
43 form allied to Frag^a paradoxica
78
55 Prunularia
77
56 Diploneis, N. W. of a Fragillaria
78 1/4
52 1/4 Fragt. of Tessella.
831
55 1/8 Stanroptera a fragt.
84 1/4
✓ 10 Triceratium
67 1/2
63 Campylodiscus Clapens? fragt.
61 1/4
62 1/4 Diploneis - ? a large fragt.
75 1/4
63 1/4 Stanroptera? india B. nov. sp.
63 1/4
52 1/4 Coscinodiscus.
85
✓ 57 Diploneis
68 +
50 1/2 Cyclotella Kützingeriana
62 1/4
144 3/4 Polymyxos - does not belong here, got in in
73 3/4 dust of room?
✓ 48 Leptinoc?
69 1/4 Tetragramma?
✓ 47 Diploneis - a good one
80 1/3
47 1/2 Tetragramma? a fragt.
81 1/4
35 1/4 fragt. of a delicate Navicula.
82

" Those marked to. by new Indicator."

No. 2138. C. East Indies.

$\frac{61\frac{1}{2}}{61\frac{1}{2}}$ Stanroptera Indica n. sp. B.
 $\frac{48\frac{1}{2}}{70\frac{1}{2}}$ " "
 $\frac{148\frac{1}{4}}{77}$ Primmularia nov. sp. ?

No. 2139. D. East Indies.

$\frac{59}{14\frac{3}{4}}$ Syringidium in a bit of clay.
 $\frac{56}{27\frac{1}{4}}$ Triceratium unequalateral T. favos.
 $\frac{56\frac{1}{4}}{79\frac{1}{4}}$ fragment of Syringidium
 $\frac{53\frac{1}{2}}{63\frac{1}{4}}$ Stanroptera Indica B. N.E. of air bubble.
 $\frac{59}{30}$ Hyalodiscus Californicus - introduced
accidentally & does not belong here
 $\frac{68}{23\frac{1}{2}}$ Piece of Tetragramma.
 $\frac{60\frac{1}{2}}{66}$ Roscinodiscus
 $\frac{57}{32}$ Tessella
 $\frac{46\frac{1}{8}}{32\frac{3}{4}}$ Roscinodiscus
 $\frac{39\frac{3}{4}}{34\frac{1}{4}}$ Stanroptera Indica B.
 $\frac{37\frac{1}{2}}{47\frac{1}{2}}$ " " side view

No. 2140. E. Mindanao.
Triceratium - on Auricula

No. 2141. F. Philippine Islands -
on Hammes Oyster.

No. 2142. G. Mindanao.

No. 2143. H. Philippine Islands -
Dund in Circula.

No. 2144. I. Mindanao.

No. 2145. J. Mindanao -
Amphitetras re

No. 2146. K. Mindanao.

No. 2147. L. Mindanao.

No. 2148. M. Mindanao, Philippine Is.
Dietycha splendens.

No. 2149. N. Mindanao.

No. 2150. O. Mindanao.

No. 2151. P. Mindanao.

No. 2152. Q. Mindanao.

No. 2153. R. Sydney, Australia.
Pinnularia Sea weed.

No. 2154. S. Hobart Town, Australia.
Seaweed.

No. 2155. J. Port Oxford Australia:

Biddulphia

Coconeis

Hyalodiscus

Isthmia obliquata?

Rhabdonema?

Melosira

No. 2156. M. Port Oxford.

No. 2157. V. So. Australia

Diatoms on Agave rubra.

No. 2158. H. New Zealand.
Fossil Infusoria-

No. 2159. K. " "
Fragillaria on Vitella.

No. 2160. Y. Patagonia

No. 2161. Z. Unicorn Bay
Triciratum Dr. Sutherland.

No. 2162 H Terra del Fuego.
Entolypha Australis

No. 2163. D Maui, Sandwich Is.
On *Sargassum echinocarpum*
Cocconeis?

No. 2164. O Hawaii Sandwich Is.
Cocconeis on *Nalaeis flagrogramma*

No. 2165. D' Hawaii.
Biddulphia

No. 2166. E' Byron's Bay, Hawaii.
Meloseira?

No. 2167. F' Sandwich Islands.
Meloseira

No. 2168. G. Tongataboo
On *Valenia rubicuta*

No. 2169. H. Feejee Islands.
Amphiprora.

No. 2170. I. Wilson's Is. Pomotea Group.

No. 2171. J. Wilson's Is. Pomona Group

No. 2172. K. Society Islands

No. 2173. L. Society Islands.

No. 2174. M' Tabiti.
Diddulphia

No. 2175. N' Tabiti.
Triceratium - a single frustule.

No. 2176. O' . Tabiti.
Gallionella re. washed from an Alga

No. 2177.

P.

Tahiti.

in *Gelidium*

No. 2178.

Q.

Tahiti.

Climacosphaeria australis.

Tricolum

Tessella punctata.

"This slide contains

Tri. concavum

" *amp^{tra}* - Sand Is.

or *T. gibbosum*?

Climacosphaeria = called by B. *australis* -
if it shows lines, then it is *promilegera* -

Biddulphia aurita? " C.S.

No. 2179. K' Tahiti.
Triceratium

No. 2180. S'. Tahiti.
"Bocconeis parvula H et B? 1 specimen seen
Triceratium (Sand Is. sp.) H et B. many -
Tri. fava? 1 spec. C.S."

No. 2181. J. Tahiti.

$\frac{56\frac{3}{4}^+}{63\frac{1}{8}}$ *Zygoceros* nov sp. broken.
 $\frac{53\frac{1}{2}^+}{29\frac{2}{3}}$ *Denticella Biddulphia?* 4 frustules.
 $\frac{50\frac{1}{8}}{30\frac{1}{2}}$ *Hyalosira punctata*-B. filled with balsam.
 $\frac{50\frac{3}{4}}{70\frac{1}{2}}$ *Denticella* 5 frustules - with air.
 $\frac{50\frac{1}{8}}{71\frac{2}{3}}$ *Triceratium* - with side view of same.
 $\frac{47\frac{3}{4}}{78\frac{1}{2}}$ " top view - 2 frustules.
 $\frac{48}{80\frac{1}{8}}$ *Denticella*- edge view of 4 frustules.

Recorded by thin enamelled card.

No. 2182. U. Tahiti.

$\frac{57}{63}$ *Zygoceros?* *radiatus* B.
 $\frac{47}{66}$ *Cocconeis parvula* Net B.
 $\frac{51}{78}$ *Tri. concavum?*
 $\frac{47^2}{74}$ " " ?
 $\frac{42}{79}$ " " ?
 $\frac{49}{66}$ " *Sandwich Is. species* - Can it be
 Net B's *T. gibbosum?*
 " fragt. of *T. concavum*.
 $\frac{50}{68}$ Another like $\frac{49}{66}$ - PV + broken
 $\frac{51}{71^2}$ *Biddulphia pulchella* - filament of
 6 frustules - 2 of another species.
 $\frac{45}{68}$ *T. concavum* - oblique.
Rhabdonema mirificum all over the slide -
 very large not named in Binley's list.
 Circles supposed by B. registered by C.S.

No. 2183. V' Tahiti.

Biddulphia reticulata - n. variety - 2 frustules

Tri. obtusum? attached without long membrane

$\frac{35}{78}$ *Podocystis adriatica*? Kütz. oblique-

$\frac{30}{85}$ *Tri.*

$\frac{27}{84}$ 2 more do. C.S.

No. 2184. W' Tahiti.

Rhabdonema murificum

Tri. concavum.

Bocconeis parvula

Biddulphia part.

2 frustules attached of *Tri. obtusum* $\frac{32}{80 \text{ or } 81}$
using top and end of slide for guide lines.
C.S.

No. 2185.

X. Tahiti.

on a Turbinaria.

$\frac{35}{81}$

Podocystis Americana B. nearly like

B fig - has no description to
refer to -

$\frac{37}{90}$

Very fine Triceratium -

C.S.

